<110> Williams, Lewis T.
      Escobedo, Jaime
      Innis, Michael A.
      Garcia, Pablo Dominiguez
      Sudduth-Klinger, Julie
      Reinhard, Christoph
      He, Zhijun
      Randazzo, Filippo
      Kennedy, Giulia C.
      Pot, David
      Kassam, Altaf
      Lamson, George
      Drmanac, Radoje
      Dickson, Mark
      Labat, Ivan
      Jones, Lee William

<120> Human Genes and Gene Expression Products
   XVI

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<140> unassigned
<141> 2003-06-26

<150> 60/192,583
<151> 2000-03-28

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<151> 2001-03-27

<160> 324

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<213> Homo sapiens

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ccttcctttt actatgtctc acctccttta ggagagaact tccttaagta agtgctaaac   120
atacatatac ggaacttgaa agctttggtt agccttgcct taggtaatca gactagttta   180
cactgtttcc agggagtagt tgaattacta taag   214

<210> 2
<211> 353
<212> DNA
<213> Homo sapiens

<220>
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<223> n = A,T,C or G

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caagcccctg atacattctc tannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    120
nnnnnnnnnn nnnnnnnnnn nnaaagtgga acactgggat ttgaacaagg ttttggttgg    180
gcatcttttc ctatgggagc tcagaaatat ctgttgtcta gccctttctc agcctcccaa    240
ccttctcggt tccttaccta tgtcacagct gactttgagc taaagtcatc tcggggcagc    300
taggtgccta tgtgagctgg cgttcatttc tcactgtttc tccttccaaa tac           353


<210> 3
<211> 399
<212> DNA
<213> Homo sapiens


<400> 3
ggcacgagcc caccaagagc tgcatagagc acgtttagct agagtaggag tttgcagtgc     60
tcatatggga aatgctgctg ctatactttt aggaatttct gagtgcaatt tagaaacatc    120
tagcacactt gaaacactgc gtatcatttt cctcactcat gaatatagtc atcagaattc    180
ataaatagtt tacctgagcc ctttaacaac ctcaaatagg ccatatttct ctctctggtt    240
gatggcatgg accctacagg aaaaaccaca ccttaccgct tctgaccagc atcactacaa    300
aaaggagtgc tgaagccaat caccatgtaa gcaagataaa agcaaagggg gtcttgcctg    360
cccatctctg ttccatacat tcttaccagg cactgagag                           399


<210> 4
<211> 389
<212> DNA
<213> Homo sapiens


<220>
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<223> n = A,T,C or G


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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngagtagag gatgcctggt atgaggcaat    300
atttgggata gggaagggaa gcttgggatt ttagctacgt agagacactt gaaaattgga    360
gggaggaaag gagtgggtgg ctttggagn                                      389


<210> 5
<211> 279
<212> DNA
<213> Homo sapiens


<220>
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<222> (1)...(279)
<223> n = A,T,C or G


<400> 5
cctctcccct tggaacccaa agaggaacgg ggccgaactt tataaacttt aggcaagggc     60
aaagggcgtg nnnnnnnnnn nngggggccaa ggggcatttc ccaagcgatt aaaatttggg    120
aacctttggt tacaaaaatt gcggggaaaa tttatttcgg gagcaatttt ccctttaaaa    180
atttgagaat tcttacccgg agagtgtgac ataatttaag gcgcctctgc ccaaagaggc    240
catgtgcgtg aggggaatac cgcgtttaat tatcacaaa                           279


<210> 6
<211> 388
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<212> DNA
<213> Homo sapiens

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ggcccagggc catggaggga cccttaggag ttcaatgaga gagaccatga ggccactggg   120
ctttcccctt cccaggcctc ctgggtgcca cccccttacg ttattcttgg gcctctaata   180
agtgtcccac aggtgcctgg ccagcccac ctgctgcaga tgtggtctgt gtgtgtgcat   240
gtgtgggtgt gtgtgggcac aggtgtgagt gtgtgagcaa cagtacccca ttccagtcgt   300
ttcctgctgt gactaagtca gcaacacagt tcctctgaca tgggccttgg ctgtgcttct   360
ttgggggtga agagattgcg gaggaagt   388

<210> 7
<211> 410
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)...(410)
<223> n = A,T,C or G

<400> 7
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acgactcgga aatttgaata ccacagtagc atggagtgtg acctcatgga gactgacatc   120
ttggagtcgt tggaagatct aggttacaag ggcccattgt tggaagatgg agcgctctct   180
caggcagtct ctgctggagc cagttccccc gagtttacca aactctgtgc ttggctggtg   240
tctgaattaa gagtgctctg taaactagag gaaaacgtgc aagcaactaa cagtccgagt   300
gaagctgaag aattccagct tgaggtgagt gggctactag gggagatgaa ctgcccgtat   360
ctttcactga catctgnnga tgtgaccaag cgccttctca ttcagaaaaa   410

<210> 8
<211> 229
<212> DNA
<213> Homo sapiens

<400> 8
ctaacaaaaa acactaaaaa aaaataaaag aaattaattg aaactgacct aactcgtggc   60
agggggaact cggctataag acccacaaac cctgctgact cataacaaac tgagttgtaa   120
gacattcatc gccgcgatat ccttgagtaa agaatgaact ctggaagccc acccacggac   180
aatgcacctt cacaaagatt ctgcactaat ctgagtgaag gtctttggt   229

<210> 9
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

<400> 9
ggcacgagag tagttgggaa atcttttata aatccaccta ttactaccta ttggtagggg   60
agattaaatt tctacaggta tggagagtcg gcttgactac actgtgtgga gcaagtttta   120
aagaagcaaa ggtatagcag ttccaagtan nnnnnnnnnn nnnnnagacc aaactctaga   180
tcttgcccaa aatggacggc cgcggcattt aaatgaagaa agatttattt ttcctttttt   240
cttttaagaa aaattttttt aaaaaatttt gattnnnnnn nnnnnnnnnn nnnnnnnnnn   300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   360
nnnnnnnnnn nnnnnnnnnn   380

3

<210> 10
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

<400> 10
cacacacaca catccactct ctctttttgc tctcttctca cacacacata tctcccttac   60
tcacacactc tctctcacac accccctctt tctttttcccc cgcactttct ttctctcacg   120
cgcgcgcgca ctcactctct tttttcttct ctctctcact ctctctctcc gcgcgctctc   180
tcacacgctt tatatctctc tctctgaggg acttctctct cctctcactc ttattttttt   240
gttgtgtttt atagcgtctc tctcttccct nnnnnnnnnn ntctatatat acagagagag   300
atctctctgc tctctcc   317

<210> 11
<211> 391
<212> DNA
<213> Homo sapiens

<400> 11
ggcacgagag aattagctga aacccaccaa gagctgcata gagcacgttt agctagagta   60
ggagtttgca gtgctcatat gggaaatgct gctgctatac ttttaggaat ttctgagtgc   120
aatttagaaa catctagcac acttgaaaca ctgcgtatca ttttcctcac tcatgaatat   180
agtcatcaga attcataaat agtttacctg agcccttaa caacctcaaa taggccatat   240
ttctctctct ggttgatggc atggaccctta caggaaaaac cacaccttac cgcttctgac   300
cagcatcact acaaaaagga gtgctgaagc caatcaccat gtaagcaaga taaaagcaaa   360
gggggtcttg cctgcccatc tctgttccat a   391

<210> 12
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 12
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tctctctcta gagtcacggt ctcctacacg gcgcgcacat gcgaggggca ctnnnnnnnn   120
nnngctcnnn nnnnnnnnnn nnnnnnnnnn cgnnnnnnnn nnnnnnntcc cttgtatact   180
ctctgtgtgc gcggggacan nnnnnnnnnn nngtgcgcgc gcgagagcgc gcgcgccaca   240
caagagagag cgcgccctnn nnnnnnnnnn naccgcgaac   280

<210> 13
<211> 311
<212> DNA
<213> Homo sapiens

<400> 13
cgcttttttg ggaacccaaa cctttttttgg ctggccggaa aaaatttcca cgggaagggt   60
aaagggggttt attaattttt ttggcaaaac aggggttaag aaaccttccc tcccggccta   120
agggtgggct aggctttgga aaggctaaaa gggggaaatt tctggcccctt gttccaaggg   180
aaacatgggc tagggggaaa ccccaccct tcagggcccct ttaaaagggc ccccaaaaaa   240

4

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agaacccctt tattaagggt taaaaaaggt taaaaaaggt gggaacctca tgggccaagg    300
caaatttttg t                                                        311

<210> 14
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

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gggtctataa ggggtaggct cnnnnnnnnn nnncccattt ggaaagggcg ttttgccaac    120
ccaagggctt ttttaagccg attttttnnnn nnnnnnccgg acttggtaat tggcttttgg   180
cttttttaaag cccaaaaaat aataattaag gggcccaaaa taaggaaggg caaaaaaagc   240
ctttactccc cctgcctttc aaaaagaaaa ggaaaaaccg gccccccctt aataattggc    300
acccctaaaa aaaggggttt taaaaaaagc caaaaacaaa agggcctgga aaaaaatttt    360
gacttttttt aacccggaac ctgggaa                                        387

<210> 15
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

<400> 15
ctgtctctct ctctcccccc ctctccctcc cgcgcgcgca cgctctttca tctctctctc    60
tacagacagg ggggggtgtt ctctctccct ctcgagaggg accgcttttt ttttctcccc    120
ctctctcaca ctcggggtgt gcgcgctccc tttggggggct tttctatagg gcgcgctcta   180
aagaaagccc gcctttctcc tctgggtgcc tcctcccaca cccgggtttt ctcccccgct    240
gtttttgaag aaactcctcc tggtctcctt atn                                 273

<210> 16
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 16
ctctctctct ggcccccccc ctctctttac acacactttc tctcctctct ctcgctctct    60
cttttttttt ctctctcccc tcgctctctc tgtgtgtctc tatctcgtgt ctctctctgc    120
gtgtccctca cacacactcg cgcgagagat ctctctctat atctctcctt tgtctgtgtc    180
tctctctcgc gcgcccacac atctatatat ttttgcgcgc acacgcgaga gtgtgtccct    240
ctctctctct gcacnnnnnn nnnnnnnnnn cacaccctcc ccc                      283

<210> 17
<211> 392
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

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tctgacactc catcataaag ctaattgttt aagtatgatc cagtggcaca gtttattcct   120
acttcataac ttttatctca ctatgttgta agatattagg tatgtttctt ctactaccag   180
taattttcaa agagttaagg aagaaggata gaagacagca gtataggtga atgtgtgcat   240
gtgttnnnnn nnnnnnnngc catattggcc aaaatttttg gactggctgg taaaacaaag   300
gctttcaaa ttttcaaata cctttaaaaa aaacctggaa attgttttgt nnnnnnnnnn   360
cgcccaaaaa aaaattttgg gcctgggggg ga   392

<210> 18
<211> 385
<212> DNA
<213> Homo sapiens

<400> 18
ggcacgaggc agaggcctcc ctgcactggt cctggcctca ctcttttccc tgacccttgg   60
ggcccagggc catggaggga cccttaggag ttcaatgaga gagaccatga ggccactggg   120
ctttcccctt cccaggcctc ctgggtgcca cccccttacg ttattcttgg gcctctaata   180
agtgtcccac aggtgcctgg ccaggcccac ctgctgcaga tgtggtctgt gtgtgtgcat   240
gtgtgggtgt gtgtgggcac aggcgtgagt gtgtgagcaa cagtacccca ttccagtcgt   300
ttcctgctgt gactaagtca gcaacacagt tcctctgaca tgggccttgg ctgtgcttct   360
ttgggggtga agagattgct gaggc   385

<210> 19
<211> 383
<212> DNA
<213> Homo sapiens

<400> 19
gaaggcttgc ggagagaaaa ccctggagcc atcttcatag gaagaggaaa ggaaactgta   60
tgacaggaga atgaatcaag tttggggctc aaggtgccgg ccactgggaa aaacagctgc   120
cccgagttgc aaaactctgg gtcctatatg tataaactat gccctgagga aggaatctca   180
ggcgtatctt aggagaaaat gttctagctt gggaaacaaa cacaacagga ccgtgaatcc   240
aaatatttca agtgggttta gaggactgga gttctaaacg ctgcttttac tgtaagtgat   300
cacgccccgg aatgtgctga agaaaggaaa atgagccagt atcggcgagg actatgggca   360
aggaaaacga gagtgtgcga tgt   383

<210> 20
<211> 313
<212> DNA
<213> Homo sapiens

<400> 20
ctctcccccg cgctcttgag atatgcgcgc ccctttttc ttctacacgg ggggggcgc   60
gcctcttttt ctcgcgcgcc ccctctctc tcttttgtgc gcacgcgcgc gcgcggggg   120
gttctttttt tgtgcggaga gagagtctgt ctcaggggtt tttttgtttt ctttcacgac   180
acacactttc tccctgtgc atgtgttttg atgctctctc gagatatgtc tctctctct   240
tgtgtgtgtg tgttgtgcgc cccccctggg gagagcgctc ttctctctct cctcatatag   300
cgcgcgcgcg cga   313

<210> 21
<211> 396
<212> DNA
<213> Homo sapiens

6

<400> 21
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cacctggcta gcacagagca ggctcacttg tcttggtccc actacccaga ttcctgcaga   120
cattgcaaac caaatgaagg ttgttgaatg acccctgtcc ccagccactt gttttgttat   180
catctgctct gcagtggaat gcctgtgtgt ttgagttcac tctgcatctg tatatttgag   240
tatagaaacc gagtcaagtg atcatgtgca tccagacaca ctgtgtcacc tgagccacag   300
agcaaatcac cttaacgatc tggaatgaaa ctgtgaccag tgccgccctg ggtggttctg   360
gagagactgc cgtcttcttg tttggccata ggtgcg   396

<210> 22
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

<400> 22
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gcgcgggctt tttctctctc tcagaggggt gaaacacaca atatctcggg gggccggggg   120
agagcccgct ctctctgcct gtaaaacaca cagaagtgcg ctcacgccct gcgcgggagc   180
ccacagactt ttttttaaaa caaaaagtat attggggtgt gtttttaatct ccctctccgc   240
tcctagaggg ggggcgnnnn nnnnnnnnnn nttttttaaat aggggggccc gagtctcacc   300
caatagaagg   310

<210> 23
<211> 375
<212> DNA
<213> Homo sapiens

<400> 23
ggcacgagcc ggcgaagagg ggagcctgac gactcggaaa tttgaatacc acagtagcat   60
ggagtgtgac ctcatggaga ctgacatctt ggagtcgttg gaagatctag gttacaaggg   120
cccattgttg gaagatggag cgctctctca ggcagtctct gctggagcca gttcccccga   180
gtttaccaaa ctctgtgctt ggctggtgtc tgaattaaga gtgctctgta aactagagga   240
aaacgtgcaa gcaactaaca gtccgagtga agctgaagaa ttccagcttg aggtgagtgg   300
gctactaggg gagatgaact gcccgtatct ttcactgaca tctggggatg tgaccaagcg   360
ccttctcatt cagaa   375

<210> 24
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

<400> 24
gctccttctt cttnttgttg atcccatcga tccgaattcg gcacgagagc acctctgtgc   60
ctctctgaga gcactcacag ccaaaagtac acagctgccc ccaggctgag agtgcttgat   120
acacccttga atcccctctt atatgatgcc ccagcccagg agagataaaa gcatcagcac   180
catgagattc acctgcctct ggtcgtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnact cttagacagc aaaaatgctt   360
tctcccagtc ttgttccctt gttctcagtt cccaccctgc ctggataact actgttcttg   420

gtttnnnnnn nnnnnnnnnn nnnnnnnnag tctcgtacca gattcataaa tcagccg   477

<210> 25
<211> 265
<212> DNA
<213> Homo sapiens

<400> 25
cgcgcggggg ggacccctct ctctctctct gttgcgcgcg ctctctcacc ccgtgtgtcg   60
cccccgatat tgtcagagag accccctatt ttttctcccc gccccacaca catctatgtg   120
taaaatgtgc gtgtctgtcg cgcacaccca cacactctcc ccggggggtt tataaaatac   180
tcgcgcgcta tattttcgcc cccctttttg tgtgtgggcg ccacaaaaac accacacgct   240
ctccccccctg tctctcgcgg gtgtt   265

<210> 26
<211> 388
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(388)
<223> n = A,T,C or G

<400> 26
ggcacgaggg aggctctttg ttatagatgc ttttgccccc ttaatacagc aatgagagca   60
ctgaccgaag aggcagccgt gactgtaaca cctccaatca cagcccagca agctgacaac   120
atagaaggac ccatagcctt gaagttctca cacctttgcc tggaagatca taacagttac   180
tgcatcaacg gtgcttgtgc attccaccat gagctagaga aagccatctg caggtgtcta   240
aaattgaaat cgccttacaa tgtctgttct ggagaaagac gaccactgtg aggcctttgt   300
gaagaatttt catcaaggca tctgtagaga tcagtgagcc caaaattaaa gttttcagat   360
gaaacaacaa aacttgtcaa gctgactn   388

<210> 27
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

<400> 27
ggcacgagag aggggctact ttagatgcaa aggggacaat tagaaggcta ctgaggtaat   60
ccggacaaaa agttgtaaat aaatcacggt ggcagtatgg tgaatagtgg aagggtgta   120
tttgaagaaa ctggggaggc cgtgggagag gctggctagt gagaaatggg ccgaaggtga   180
aagcagctta ggggctggtt tccagttttc tggcactgca gactgggtag tgggaggtgg   240
ctttctcaag aggagaggtg agtgggaagg agcagggctg caggggaggt catggtcttg   300
ggagtggtgc tcagtctgac ttgcacatag gggagattat tttagatttc cgcaagaaaa   360
tgtccagcat gtagtcatat caatgnnnnn nnnnnnnnnn nnnnnnnnnn nntgagattt   420
acccaaaaag a   431

<210> 28
<211> 389
<212> DNA
<213> Homo sapiens

<400> 28
ggcacgagcc accccccaaga gtgtggccat ctggggccgt gtggtatttg ccactcagga   60

8

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gacatgtccc tatgacatag cagtggtgag cctggaggag gacctggatg atgtccccat      120
ccctgtgccc gctgagcact tccatgaagg cgaggctgtg agtgtggtgg gctttggcgt      180
ctttggccag tcttgcgggc cctcggtgac ctcaggcatc ctttccgctg tggtgcaggt      240
gaatggcacg cccgtaatgc tgcagaccac gtgtgctgtg cacagcggct ccagtggggg      300
accccctcttc tccaaccact caggaaacct ccttggcata atcaccagca acacccggga      360
caataatacg ggggccacct accccccacc                                        389


<210> 29
<211> 431
<212> DNA
<213> Homo sapiens


<400> 29
ggacgaggct ccagcgcact tttccaacac atcactgcat tatttgaatg caccatggca      60
gctattgtca ccttacttgg gagtgatcca gttggagctc tttatattcg gacatgtcga      120
gtattgatgc tttctgactg ggacacgatg ctttacaacc caaggccaga ttacggtacc      180
acagtgcact gtactcatga agccggctac ccactatata ccatcgtatt tatctattac     .240
gcattctgct tggtattaat gatgctgctc cgacctcttc tggtgaagaa gaatgcatgt      300
gggttaggga aatctgatcg atataaaagt atttatgctg cactttactt cttcccaaat      360
gtaaccgtgc ttcaggcagc tgtgggaggc ctttatatt acgccttccc atacattata      420
ttagtggtat c                                                            431


<210> 30
<211> 393
<212> DNA
<213> Homo sapiens


<400> 30
ggcacgagac tacacccgct tcgatgactg gtacctgtgg gttcagatgt acaaggggac      60
tgtgtccatg ccagtcttcc agtccttgga ggcctactgg cctggtcttc agagcctcat      120
tggagacatt gacaatgcca tgaggacctt cctcaactac tacactgtat ggaagcagtt      180
tgggggggctc ccggaattct acaacattcc tcagggatac acagtggaga gcgagaggg      240
ctacccactt cggccagaac ttattgaaag cgcaatgtac ctctaccgtg ccacggggga      300
tcccaccctc ctagaactcg gaagagatgc tgtggaatcc attgaaaaaa tcagcaaggt      360
ggagtgcgga tttgcaacaa tcaaagatct gcg                                    393


<210> 31
<211> 459
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G


<400> 31
gcaatcgcat tgtctttttg aggatnnnat naatgtcaat tcggcacgag ctttgtggat      60
gtttccagct gccatcgtca cccttctgtc tgctccctgg accagcttca ggacttgaag      120
gccctcgtgg ctgagatcat cacacatttg caggggctgc agagggactt atctctagca      180
gtctcctaca gcaggctcca ttcctcagac tggaatctgt gtactgtatt tgggatcctc      240
ctgggctatc ctgttcccta tacctttcac ctgaaccagg gagatgacaa ctgcttagct      300
ctgactccac tacgagtatt cactgcccgg atctcatggt tgctaggtca accccaatc      360
ctgctctatt cttttagtgt cccagagagt ttgttcccac gcctgaggga cattctgaac      420
acctgggaga aagacctcag aacccgattt atgactcac                              459


<210> 32
<211> 445
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (1)...(445)
<223> n = A,T,C or G

<400> 32
ggcacgagat ggagagcacc tctgtgcctc tctgagagca ctcacagcca aaagtacaca   60
gctgccccca ggctgagagt gcttgataca cccttgaatc ccctcttata tgatgcccca   120
gcccaggaga gataaaagca tcagcaccat gagattcacc tgcctctggt cgtnnnnnnn   180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   300
nnnnactctt agacagcaaa aatgctnttc tccagtcttt gttccttggt ctcaaggtcc   360
acccttgctg gataactact ggtcttgggt tcctggggta aagatggaac ttgagtaagc   420
tcgacccaaa tccaaaatca atccg   445

<210> 33
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

<400> 33
ggcacgagcg cctgccctgc atcagggaga catgtcagct gaggagtaat tgaccagatt   60
tctgctttag aaatatggca gtggaggcag gagatggcat ctgaggccca ggctggggag   120
aagggtgctg ggatgagaac ctggagttca gaccagggaa gggatgagag cctaagaaga   180
ggagctctca ccctgagaca ggctggtgca ggagtctgct cgatccaggc ctgggtccct   240
ggttccctct gagcttggga ggactatgtg agacagaaca ggaccagggg cctgcattcc   300
cccttgtatt attcatcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna   420
tgatggccc   429

<210> 34
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

<400> 34
gttctgtggg aatagagggt ccctggtgac agggcagggc tagatctgga gcctgcactt   60
ggcctgtgac atactgtctt gtttctgaga atcctcccct acttctctag ttaatctcca   120
gagacttctg tgactactta atcacaaagg aaattttcag gaatattatc aaatactatt   180
ttagaaaaaa aaagagaagg gatttgaatg ttttcagttc agtttagnta tcnnnnnnnn   240
nnnnnnnccc caaacttcaa aatggaggcc ccccctcct ttaaccccc taaaaaaaat   300
tctgatgttt gaggtttggt tgccaattaa ccaaaccccc aaaaaaaaag ggggttaaac   360
cccattggaa agttttccta attttggggg gtgccctttg aggtggaccc ggttccctgc   420
cctgggaaag gccccaaag   439

<210> 35
<211> 440
<212> DNA
<213> Homo sapiens

10

<220>
<221> misc_feature
<222> (1)...(440)
<223> n = A,T,C or G

<400> 35
ggcacgaggt gaagtcctgg ttccagactc cccttttttgc cgggacatga tggatctgtc   60
agctggtgcc tatagtccta gagagctaga gatggaggga aattcagatc atctaaaccc   120
ttcagcccctt cactggacag aagaggaaac tgaggctcca tctgcatgac gttcccagag   180
tcacggcaca aattcatgga agaagcagca ggaaactcag ttctccagtc tgggtccaat   240
gtgtgtttta gaaatatctc cacaggggtta atgactcaat ttttcatgca tgattgctag   300
taatgacaat catgttatgt ttgtttctgt agctttggaa atcactcctt ccacttgagt   360
ttcaggtccc aactgtccac acctgcagga gtgaggtttt gctgagactg ataaggcact   420
cacattntgt gggagttgaa   440

<210> 36
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(423)
<223> n = A,T,C or G

<400> 36
acgagcgcnn nncctgcatc agggagacat gtcagctgag gagtaattga ccagatttct   60
gctttagaaa tatggcagtg gaggcaggag atggcatctg aggcccaggc tggggagaag   120
ggtgctggga tgagaacctg gagttcagac cagggaaggg atgagagcct aagaagagga   180
gctctcaccc tgagacaggc tggtgcagga gtctgctcga tccaggcctg ggtccctggt   240
tccctctgag cttgggagga ctatgtgaga cagaacagga ccaggggcct gcattccccc   300
ttgtattatt catcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatga   420
tgg   423

<210> 37
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A,T,C or G

<400> 37
ggcttgtaga nctcggaggt tngcaagaat cgcattcggc acgagctggg acacagtgng   60
ctctcttata tttgttgctg gaataaatga atgaactaag gcagtcttgt agggatttac   120
tgttaaccac catgggaaaa ttaaataaat gcggggaagg aaaacgttct aaaattagaa   180
gactactttc tactctcagc ttctgattcc ctctgagcta agaaccagac agccttaggc   240
tggtaactcc tataagctgg tcctcctccc atgctgaccc catctttact gtacaattca   300
cttttcatgg actgaaggca ccaccaagat agatccagga gtgacaactc cagtgtaggt   360
gtccactgtt cccttaatct ctgtcctgct ccaagtataa ataaatcggg gccatttcct   420
taga   424

<210> 38
<211> 434
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(434)
<223> n = A,T,C or G

<400> 38
ggcacgaggt acacagctgc ccccaggctg agagtgcttg atacaccctt gaatcccctc   60
ttatatgatg ccccagccca ggagagataa aagcatcagc accatgagat tcacctgcct   120
ctggtcgtnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   240
nnnnnnnnnn nnnnnnnnna ctcttagaca gcaaaaatgc tttctcccag tcttgttccc   300
ttgttctcag ttcccaccct gcctggataa ctactgttct tggttttnnnn nnnnnnnnnn   360
nnnnnnnnnn agtctcgtac cagattcaaa aatcagtcaa ctacttcaaa aacaatgaca   420
tgctggctac ttaa   434

<210> 39
<211> 428
<212> DNA
<213> Homo sapiens

<400> 39
ggcacgagct ttgtggatgt ttccagctgc cagcgtcacc cttctgtctg ctccctggac   60
cagcttcagg acttgaaggc cctcgtggct gagatcatca cacatttgca ggggctgcag   120
agggacttat ctctagcagt ctcctacagc aggctccatt cctcagactg gaatctgtgt   180
actgtatttg ggatcctcct gggctatcct gttccctata ccttcacct gaaccaggga   240
gatgacaact gcttagctct gactccacta cgagtattca ctgcccggat ctcatggttg   300
ctaggtcaac ccccaatcct gctctattct tttagtgtcc cagagagttt gttcccaggc   360
ctgagggaca ttctaaacac ctgggagaag gacctcagaa cccgatttag gactcagaat   420
gactttgc   428

<210> 40
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

<400> 40
ggcacgagtg gagagcacct ctgtgcctct ctgagagcac tcacagccaa aagtacacag   60
ctgcccccag gctgagagtg cttgatacac ccttgaatcc cctcttatat gatgccccag   120
cccaggagag ataaaagcat cagcaccatg agattcacct gcctctggtc gttagggaac   180
aatggaggcc tgcgatttgg agttaaactc tcagtgatct ctgtgttgac aacaccaaag   240
ctagaggaat ccagtaggat gtgggcatgg ttttcccgga aggctgactg agcagttctg   300
caaatgtttg caagtacagg gcagaatttc atccagcctc agaaccttga gccaagactc   360
agcatcagca aagccaaaag tttcattttc ttgactgtgg gagtgctagt cccaaccttt   420
agatggccn   429

<210> 41
<211> 430
<212> DNA
<213> Homo sapiens

<400> 41
actctgcaaa cagctacttg tgctgattgc aggagaccca taaattcgaa cgaggaacaa   60
ccgagacctg aaggggctga cgaacgcgat ttctgataag tatggggtcc ctgaagagaa   120
catttaccaa gcctacaata aatgcacgcg aggaatctta tgcaacatgg acaacaacat   180

12

```
cattcagcat tacagcaacc acgtcgcctt cctgctggac atggcggagc tggacggcaa       240
aattcagatc atccttaagg agctggaagg cctctcgagc atacaaaccc tcacgacctg       300
catggggcca gcagggacgt ggccccacgc cacacacaac ctctccacat gcctcaacgc       360
tgttacttga atgccttccc tgagggaaga ggcccttgag tcacagaccc acagacgtca       420
ggaccatggg                                                              430


<210> 42
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(437)
<223> n = A,T,C or G

<400> 42
ggcacgaggc gccctctgcc cccctcagag ggtctctcct ctcgaccccc aaattccccc        60
agcatctcaa tcccttgcat gggggagcaag gcctcgagcc cccatggttt gggctccccg      120
ctggtggctt ctccaagact ggagaagcgg ctgggaggcc tggccccaca gcgggggcagc      180
aggatctctg tgctgtcagc cagcccagtg tctgatgtca gctatatgtt tggaagcagc       240
cagtccctcc tgcactccag caactccagc catcagtcat cttccagatc cttggaaagt       300
ccagccaact cttcctccag cctccacagc cttggctcag tgtccctgtg tacaagaccc       360
agtgacttcc aggctcccag aaacccacc ctaaccatgg gccaacccag aacaccccac       420
tctccaccac tgggcan                                                      437


<210> 43
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(432)
<223> n = A,T,C or G

<400> 43
ggnncagtga ccaccaggac ctggtgtctg tgcacatcta catcacccag ctggctgaga        60
agttcgacct caggaccact atgctgtaca tctgtgagcg gcacttccag aaggttctga       120
accggagtct attcacaggc ctgcgctcca tcacccactt tggccgtccc ccctttgagc       180
ccttcttcaa ctccctgcag gaggtccacc cccaggtccg gaagatcggg gtgtttagct       240
gtggcccccc tggcatgacc aagaatgtgg aaaaggcctg tcagctcatc aacaggcagg       300
accggactca cttctcccac cattatgaga acttctaggc cccttcccgg gggttctgcc       360
cactgtccag ttgagcagag gtttgagccc acacctcacc tctgttcttc ctatttctgg       420
ctgcctcagc cc                                                           432


<210> 44
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(436)
<223> n = A,T,C or G

<400> 44
ggcacgagcc gaggcgcgcg tgttccgtgg ccgcttccag ggccgcgcgg cggtgatcaa        60
gcaccgcttc cccaagggct accggcaccc ggcgctggag gcgcggcttg gcagacggcg       120
gacggtgcag gaggcccggg cgctcctccg ctgtcgccgc gctggaatat ctgccccagt       180
```

```
tgtctttttt gtggactatg cttccaactg cttatatatg gaagaaattg aaggctcagt          240
gactgttcga gattatattc agtccactat ggagactgaa aaaactcccc agggtctctc          300
caacttagcc aagacaattg ggcaggtttt ggctcgaatg cacgatgaag acctcattca          360
tggtgatctc accacctcca acatgctcct gaaacccccc cttgaacagc tgaacattgt          420
gctcatagac tntggg                                                          436


<210> 45
<211> 300
<212> DNA
<213> Homo sapiens


<400> 45
tctctctctc tctctctcac agacactttt accccatata tacacataaa atgtgtgcgc           60
gagagagaga gagccctctc gctctatata tatccccgcg ggggggagat aaaaatatat          120
atccccacac tttatagggc gggctccccc ctctatcctg tgtgtagaga gaaatatata          180
tatatctgtg gggggagaga gagatctctc accccccccgc acacgcgagc tctttcttaa         240
gatgtgtgag cgcccccccc ctgttttttgt aaaaaagaga ggggtatata tattggggggg        300


<210> 46
<211> 191
<212> DNA
<213> Homo sapiens


<400> 46
caaaacaaaa ccatgttccc actggtgatg cctgtctgac acgttttggt atttagtagg           60
aaatgaaggg tcttcaagct tcgagagaac cttcaaaatt gtcacaattg ctgaaaacag          120
aatgaatcgg gaacattatc tcaatatttt gcataataga caacaccaca gtgttttggt          180
tccctgacct g                                                               191


<210> 47
<211> 302
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (1)...(302)
<223> n = A,T,C or G


<400> 47
gcccgggcgt gtgtgtatgt gtgtacacgc ccccgtgggc tctctgtcgc atcttgnnnn           60
nnnnnnnnnn nnnnnnnnnn nntgtannnn nnnnnncaca tagcgcgcgc gctcgcgcgc          120
acggagctat agagacacca ctctctctct gagatacacg cgcgcgcaca cactctgcgc         180
gcgcgcgctc ttctttgtct cgcgcgcgcg cccgctatgt ggagggtata tgtggggggaa        240
aatagcgagg tgtgcgcgca cccgcgcacg cgcgctctat atctctatat cttcagcgcg         300
cg                                                                         302


<210> 48
<211> 411
<212> DNA
<213> Homo sapiens


<400> 48
ggcacgaggc ttgcggggca ttaggactag agggttggtg aaaattcaga cagaatgtaa           60
cttgacaaag agaagacagc aacaactgta acaattatct tatgaatatt tgcgaaactc          120
aaagggatct gattggtgac ctctgggctt tatcaaatta acatcacaac ttctagaaga         180
aagtcaacct tcatctttta caatagaaat catatgtttt gctaacccat tcctatttag         240
gctgaaaaca attaagagtt atgggtactt aaaaaaatca ttatgtttat aaaattagtg         300
atagaaggag catagtgttc tatacagtca cacacataca cttccttatt tcttttatttt        360
aaactttgag taacatagca gtctatgttt gggtcagttt tccctttttt g                  411
```

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```
<210> 49
<211> 408
<212> DNA
<213> Homo sapiens

<400> 49
ggcacgaggc acacaaagcc aagggcatac cctatagagt aaagctgcag ccaccctgtg      60
tctcatgtgc agctgaaata gtgatctgct tctgtcactg tcacatagac agccctgcat     120
gcccctgtc tcacacagtt tgtaatgaag acagctcctt ctcatctttc cataagcctg      180
agatacaagt tcagggactc agcaatgcac tttaggactg agctaggagg caaatatctg      240
aagcttgcta tgctgttctt tccattcctt ttccctctga aacacacaaa ataccaaagg      300
aacttacgca tcacaccact gagtcctcta actaatcata tgtgctcaga cacagctcaa      360
gcacacccct tagttaagag agaacctcca tatacattaa ttttttttc                  408

<210> 50
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G

<400> 50
agagaaacat ccactcgaat tcggcacgag gacagggcag ggctagatct tttttctgca      60
cttggcctgt gacatactgt ctggtgtctg agaatcctcc cctacttctc tagttaatct     120
ccagagactt ctgtgactac ttaatcacaa aggaaatttt caggaatatt atcaaatact     180
attttagaaa aaaaaagaga agggatttga atgttttcag ttcagtttag ttatcnnnnn     240
nnnnnnnnnn ncccaaactc aagtatggag gcccccccct ctttaaaccc accaaaaaaa     300
ttttttgggg ttcagggtgg gttggccaac tacccaaacc cccaaagaaa atggggggtta    360
accccttga aaaagttttc ttactttggg gggctgccct tgagccg                    407

<210> 51
<211> 312
<212> DNA
<213> Homo sapiens

<400> 51
ccccgggggc gctctctttt tttttccccc caagtgagag agccccgcgc gcgtctctct      60
ctcgcatttt ttcgacaccc cccttgtgtg gggcgggggcg cgcgtctgtg tgtgatacac     120
agaatgtgcg tggtgtgtct gagagacact cttcgcgctt gtgtgtgaga cacgagactt     180
tctcttttta gggggcgggg ggggagtttt atgtgtgcca catgttttct gtgtataaaa      240
agagcgcaca gagtgttttt tatatctgtg agagagacct ctctgtatat atacacgctc      300
agagggggaga gg                                                         312

<210> 52
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(420)
<223> n = A,T,C or G

<400> 52
acgagggnnn nnaagcaccg cgggtacccc atgagggcct acaagctggc caccctggcc      60
atgacccatc tcaacctgag ctacaatcag gacacacacc ctgccattaa tgatgttttg     120
```

```
tgggcctgtg cgcttagcca ctcccttggt aaaaatgagc ttgcagctat aatacctctg      180
gtggtcaaga gtgtcaagtg tgcaacggta ctgtcagaca ttttgcgcag atgcactctg      240
accactcctg gcatggtggg acttcatggg aggaggaact ctggtaagct catgtcactg      300
gacaaagccc ccttgaggca actcttggat gccacgatcg gggcctacat caacacaacg      360
cactcacggc tcacacacat cagtcctcgg cactatagtg agtttataga gttcctcagc      420
```

<210> 53
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(394)
<223> n = A,T,C or G

<400> 53
```
ggcacgaggt gtggatgaca gagcgagacc ctgcctcatn nnnnnnnnnn nnnnnnnnnc       60
cccccnnnn nnnnnnnaaa aacccggttg ggccccggct gttctttagg gccctaaaaa      120
ttgccccaaa aaaaattggc cgggccctaa aaaaacccccg gttttttggg gagaattcaa     180
aaaagggtcg gtnnnnnnnn nnttttttaaa cttccaaccg gcctcagggg gaaaaaacct     240
ggaaaactca atgggggttg gaacaaaatc aatatttggt cctaccggaa agcgttaaga     300
ttttaaacca gtaaaaatgg ccaannnnnn nnnnnnnnnn nnnnaacagg gcccccgggg      360
taagggctaa aaattttcag atttgaacct tttt                                 394
```

<210> 54
<211> 390
<212> DNA
<213> Homo sapiens

<400> 54
```
ggcacgagat tttcttggca ataagcggac tctgggactc cggctcccta ccccaaactg       60
aagcgcttcc gtgaacaccc ccgtcctccg tagggggagg ggagcaggcg ggatcctggg      120
tccctcataa gcactttggt tttaccgcct gcaacctcac tgtgcccgcc ccgcaccatg      180
ccctagcccc aggtctagcc gggcccattg caggggcag cacttggggg catctccggc       240
acttgggtgg gaccaaggag atgccaccat agacctttcc ctcgccttct tcctccctag      300
tccgggttcc attcttttca ccagcaccca tcgcccaagg ggtaccgagg gggggcaggg      360
ggtggtcaat tcaaacccaa ccccgctcg                                       390
```

<210> 55
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 55
```
tctctctctc tctctgcgcc cacacctctc tcannnnnnn nnngcacgtg tatatctnnn       60
nnnnnnnnnn ttttttttag agagacatct cgcgcgtgtc tctcttttc ccgcccgccg       120
ctcttttctc gcgcgcgcgc gcacccccc tgtgtggggc gcgcgctctc tttttttttg      180
tgcgcgcgan nnnnnnnnnt ctctctctgt ggcgnnnnnn nnnnnntctc ttattttata      240
ttttggggggg cgggggggcct cccctccccc ctgtgtgcct                         280
```

<210> 56
<211> 398
<212> DNA
<213> Homo sapiens

16

<220>
<221> misc_feature
<222> (1)...(398)
<223> n = A,T,C or G

<400> 56
ggcacgaggt ccacctcagc tcagcaatct catgccggtt ggcaattagt cagcataagc   60
cgatgcctgc ccatcagttc tttactctga ggtgttagag tggaataaaa atataaatac   120
ttacnnnnnn nnnnnnnnca atacccaacc ccctcccatt nnnnnnnnnn nnngcccgcc   180
cccctaaaat tcatggagag gcctatttcg tagccagcca ctatataaac cctgctggtt   240
gggcggnnnn nnnnnnnngt gaagggggga aaaaaaagcc tttttttgaa aaaattagtc   300
attttttgct ttttttggac acattttgcg ggacaaagaa ccctgtaaaa ccccccctatt   360
cnnnnnnnnn nnnnnnaacc tcaacgaggg ggggcgg   398

<210> 57
<211> 386
<212> DNA
<213> Homo sapiens

<400> 57
ggcacgagat tttcttggca ataagcggac tctgggactc cggctcccta ccccaaactg   60
aagcgcttcc gtgaacaccc ccgtcctccg taggggggagg ggagcaggcg ggatcctggg   120
tccctcataa gcactttggt tttaccgcct gcaacctcac tgtgcccgcc ccgcaccatg   180
ccctagcccc aggtctagcc gggcccattg caggggggcag cacttggggg catctccggc   240
acttgggtgg gaccaaggag atgccaccat agacctttcc ctcgccttct tcctccctag   300
tccgggttcc attcttttca ccagcaccca tcgcccaagg ggtaccgagg gggggcaggg   360
gggggtcaag tccaggccca cccccg   386

<210> 58
<211> 202
<212> DNA
<213> Homo sapiens

<400> 58
cactttttct atatgaatat cttggccgta tcatagactc aaaaaagaaa ttatgcaagt   60
tctttctgcc cccacctgcg ccaggggaga agtttacctt cgggaactcc agagttaaag   120
cagttgtggt gataattttt tatgctgaac acaccacgat ataaaaaaca acattcacgt   180
gctttatttt tgttatgtgt tt   202

<210> 59
<211> 394
<212> DNA
<213> Homo sapiens

<400> 59
ggcacgagtc tgcttctgtc actgtcacat agacagccct gcatgccccc tgtctcacac   60
agtttgtaat gaagacagct ccttctcatc tttccataag cctgagatac aagttcaggg   120
actcagcaat gcactttagg actgagctag gaggcaaata tctgaagctt gctatgctgt   180
tctttccatt ccttttccct ctgaaacaca caaaatacca aaggaactta cgcaacacac   240
cactgagtcc tctaactaat catatgtgct cagacacagc tcaagcacac cccttagtta   300
agaaagaacc tccatataca ttaatttttt tctgcctaaa aataaaattg cgttgtggca   360
gcaatttgga aactacagca aagtctccaa aaaa   394

<210> 60
<211> 246
<212> DNA
<213> Homo sapiens

<220>

17

<221> misc_feature
<222> (1)...(246)
<223> n = A,T,C or G

<400> 60
cccctccttt tttaggcctg aatacaaagt agaagatcac tttccttcac tgtgctgaga   60
atttctagat actacagntc ttactcctct cttccctttg ttattcaggg tgaccaggat   120
ggcgggaggg gatctgtgtc actgtaggta ctgtgcccag gaaggctggg tgaagtgacc   180
atctaaattg caggatggtg aaattatccc catctgtcct aatgggctta cctcctcttt   240
gccttn   246

<210> 61
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(395)
<223> n = A,T,C or G

<400> 61
ggcacgagct tgcttccctc tcaccctctg cagtttccnn nnnnnnnnnn nnnnnnnnnn   60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   120
nnnnnnnnnn nnnnnncttc catatcgtaa actgccttgg aaccaattac cactaccagg   180
gagacaaact attgcttaga ggatgctgac aggagcagca tgccaaaatt ggaagaagga   240
gaaagtttaa gctctcctca ctatgagttt tcaagtataa aagacttttt cttccacgat   300
tttgagaaca actgaggact cttgtgacca ggacaacagg gaagcttgca gcaagatagc   360
tccaggttgg attcatgctt cgcaccccaa aggct   395

<210> 62
<211> 387
<212> DNA
<213> Homo sapiens

<400> 62
ggcacgaggc ttgcggggca ttatgactag agggttggtg aaaattcaga cagaatgtaa   60
cttgacaaag agaagacagc aacaactgta acaattatct tatgaatatt tgcgaaactc   120
aaagggatct gattggtgac ctctgggctt tatcaaatta acatcacaac ttctagaaga   180
aagtcaacct tcatctttta caatagaaat catatgtttt gctaacccat tcctatttag   240
gctgaaaaca attaagagtt atgggtactt aaaaaaaatca ttatgtttat aaaattagtg   300
atagaaggag catagtgttc tatacagtca cacacataca cttccttatt tcttttattt   360
aaactttgag taacatagca gtctatg   387

<210> 63
<211> 401
<212> DNA
<213> Homo sapiens

<400> 63
ggcacgaggg aaactgtatg acaggagaat gaatcaggtt tggggctcaa ggtgccggcc   60
actgggaaaa acagctgccc cgagttgcaa aactctgggt cctatatgta taaactatgc   120
cctgaggaag gaatctcagg cgtatcttag gagaaaatgt tctagcttgg gaaacaaaca   180
caacaggacc gtgaatccaa atatttcaag tgggtttaga ggactggagt tctaaacgct   240
gcttttactg taagtgatca cgccccggaa tgtgctgaag aaaggaaaat gagccagtat   300
cggcgaggac tatgggcaag gaaaacgaga gtgtgcgatg tgtcaaagca agacatctgt   360
gtatagtaat ataaccaagt aatagatagt catagaatca a   401

<210> 64
<211> 274

18

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 64
cacgcacccg cctgtgtgtg tgcgcacaca cgctccctct ctctatagac agacacacac   60
tgcgcgctcg ctctctcttt tgtgtgcgct ctccgtgctc ccccctctc tctcttttt   120
ctctatatnn nnnnnnnnn nnnnntctga gagctcgcgc gctcagcgtt ctattcacac   180
gcgcgttttt tttatatata tattttgtgc gcgccggggg gggcgcacac actctctctt   240
ttttgtgggt tcgctgtccg cgtccctcct tttg   274

<210> 65
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 65
ccctttttttt tatacaccc ccccttgtctg tctgttttgt gtgtctgccc ccttctctc   60
gttgtgatct ccctctctct tttttctccc cccgcgctct ctctctcttg cggggaggct   120
cacatacccc ctctctctct cttttttgaa ccacacattc cgtttctctt tttttatct   180
ctacccctct ctcgtctgta cccccacan nnnnnnnnn nnnnnnnnn nnnagagtag   240
agttgcgttc cccactctcc nnnnnnnnnn gtggggtgc   279

<210> 66
<211> 311
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(311)
<223> n = A,T,C or G

<400> 66
caaaacaaaa attaaaaatg accccccttt aaaattttag ggggtccatt tttaaaaacc   60
ttaacagttt aaaggttctt ggtcagtttg gggaacccca ccttgagatg ggagcaaaaa   120
aggggatttt tttccaacat agcgagcggt ttagatttttt tttgtcccgt tagagttgcc   180
ctgtgcacca cgccaaaacc tccagaggtc ttctttttt acacaccctg tctgggggtg   240
tttctcagaa gattaacaca gcgcctgggg gtttaaggga ggggtgacct ccgcaggaca   300
ttatggggct t   311

<210> 67
<211> 386
<212> DNA
<213> Homo sapiens

<400> 67
ggcacgaggg aatctcaggc gtatcttatg agaaatgtt ctagcttggg aaacaaacac   60
aacaggaccg tgaatccaaa tatttcaagt gggtttagag gactggagtt ctaaacgctg   120
cttttactgt aagtgatcac gccccggaat gtgctgaaga aaggaaaatg agccagtatc   180
ggcgaggact atgggcaagg aaaacgagag tgtgcgatgt gtcaaagcaa gacatctgtg   240
tatagtaata taatcaagta atagatagtc atagaatcaa gctgatgtat ttggcagggg   300
ccgcgggagg atgaggcaac tcccatcaga ttagaaagat gttaacactg taacaaaagt   360
ggggctcgag gaagggaaa agcgca   386

<210> 68

<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(396)
<223> n = A,T,C or G

<400> 68
ggcacgagga ggcagctgcc tttgtttgcc atggatgggt aggggctgca ctgagcagca   60
ccggtgttct tcatccggct gcaccccaa cagagctctt tcttccccag atcccttta   120
cagttggatt ctccctcttg gatctggctc tgccttagtc cgacctagag ggatcagctt   180
cgcccacgcc cactctcacc cggaaccttt catctcttat tgaagccttt taggcccatt   240
gggatgttca ttagaactct gaaaactaca gttctcccct ttatgaggac tgcaccacag   300
ctcgccctct cctgggttcc gcctgggtgc agagtgagcc catgggacag ccctctgaaa   360
ttatactgct tacaaccatg ctgagtctgc aaggan   396

<210> 69
<211> 397
<212> DNA
<213> Homo sapiens

<400> 69
ggcacgagtc ttagtcaaca tggacaacaa catcattcag cattacagca accacgtcgc   60
cttcctgctg gacatggggg agctggacgg caaaattcag atcatcctta aggagctgta   120
aggcctctcg agcatccaaa ccctcacgac ctgcaagggg ccagcaggga cgtggcccca   180
cgccacacac aacctctcca catgcctcag cgctgttact tgaatgcctt ccctgaggga   240
agaggccctt gagtcacaga cccacagacg tcagggccag ggagagacct aggggtccc   300
ctggcctgga tccccatggt atgcttgaat ctgctccctg aacttcctgc cagtgcctcc   360
ccgtacccca aaacaatgtc accatggtta ccaccta   397

<210> 70
<211> 394
<212> DNA
<213> Homo sapiens

<400> 70
ggcacgagcc aaacctagca caaaacgggg ttcacaagcc atggtcgggg tccggggggg   60
acagaaatgg attttcttgg caataagcgg actctgggac tccggctccc taccccaaac   120
tgaagcgctt ccgtgaacac ccccgtcctc cgtaggggga ggggagcagg cgggatcctg   180
ggtccctcat aagcactttg gttttaccgc ctgcaacctc actgtgcccg ccccgcacca   240
tgccctagcc ccaggtctag ccgggcccat tgcaggggc agcacttggg ggcatctccg   300
gcacttgggt gggaccaagg agatgccacc atagaccttt ccctcgcctt cttcctccct   360
agtccgggtt ccattctttt caccagcacc catc   394

<210> 71
<211> 389
<212> DNA
<213> Homo sapiens

<400> 71
ggcacgagga aagttaagca tctacaggtt atggctttgg gagttccaat atcagtctat   60
cttttattca acgcaatgac agcactgacc gaagaggcag ccgtgactgt aacacctcca   120
atcacagccc agcaaggtaa ctggacagtt aacaaaacag aagctgacaa catagaagga   180
cccatagcct tgaagttctc acacctttgc ctggaagatc ataacagtta ctgcatcaac   240
ggtgcttgtg cattccacca tgagctagag aaagccatct gcaggtgtct aaaattgaaa   300
tcgccttaca atgtctgttc tggagaaaga cgaccactgt gaagcctttg tgaagaattt   360
tcatcaaggc atctgtagag atcagtgag   389

<210> 72
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(396)
<223> n = A,T,C or G

<400> 72
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ggcacgaggc ctggccccac agcgggggcag caggatctct gtgctgtcag ccagcccagt      60
gtctgatgtc agctatatgt ttggaagcag ccagtccctc ctgcactcca gcaactccag     120
ccatcagtca tcttccagat ccttggaaag tccagccaac tcttcctcca gcctccacag     180
ccttggctca gtgtccctgt gtacaagacc cagtgacttc caggctccca gaaaccccac     240
cctaaccatg ggccaaccca gaacacccca ctctccacca ctggccaaag aacatgccag     300
cagctgcccc ccatccatca ccaactccat ggtggacata cccattgtgc tgatcaacgg     360
ctgcccagaa ccagggtctt ctccacccca gcggan                               396
```

<210> 73
<211> 386
<212> DNA
<213> Homo sapiens

<400> 73
```
ggcacgaggc cacctgttgc cctaacaccc tgtctgactc tctcccgctg cagcagccag      60
tccctcctgc actccagcaa ctccagccat cagtcatctt ccagatcctt ggaaagtcca     120
gccaactctt cctccagcct ccacagcctt ggctcagtgt ccctgtgtac aagacccagt     180
gacttccagg ctcccagaaa ccccacccta accatgggcc aacccagaac accccactct     240
ccaccactgg ccaaagaaca tgccagcagc tgccccccat ccatcaccaa ctccatggtg     300
gacataccca ttgtgctgat caacggctgc ccagaaccag ggtcttctcc accccagcgg     360
accccaggac accagaactc cgttca                                          386
```

<210> 74
<211> 390
<212> DNA
<213> Homo sapiens

<400> 74
```
ggcacgagct cagatccggg gactgcggat aaatggcctt aggccgcggg cagcgagatg      60
ttgcgttccg gtgtgggtgt gggtgtgcct ccgacggcgt ctcggtgcca gtgtcgaggt     120
tctttctgct tagctacccg gagccgacta cggaggagga cacctgagtt tacgtctctt     180
ccatctgctg ctcgcctcag ctgcctgggt ccccgacgag agccaggtga cacttaactc     240
cgccatctgc gtttttgagca ctgttctcat aatggagttt cctgatttgg ggaagcattg     300
ttcagaaaag acttgcaagc agctagattt tcttccagta aaatgtgatg catgtaaaca     360
agatttctgt aaagatcatt ttccatacgg                                      390
```

<210> 75
<211> 399
<212> DNA
<213> Homo sapiens

<400> 75
```
ggcacgagaa atggccttag gccgcgggca gcgagatgtt gcgttccggt gtgggtgtgg      60
gtgtgcctcc gacggcgtct cggtgccagt gtcgaggttc tttctgctta gctacccgga     120
gccgactacg gaggaggaca cctgagttta cgtctcttcc atctgctgct cgcctcagct     180
gcctgggtcc ccgacgagag ccaggtgaca cttaactccg ccatctgcgt tttgagcact     240
gttctcataa tggagtttcc tgatttgggg aagcattgtt cagaaaagac ttgcaagcag     300
ctagattttc ttccagtaaa atgtgatgca tgtaaacaag atttctgtaa agatcatttt     360
ccatacgctg cacataagtg tccgtttgca ttccagaag                            399
```

<210> 76
<211> 386
<212> DNA
<213> Homo sapiens

<400> 76
ggcacgagca aaggctcgca gcggccagaa acccggctcc gagcggcggc ggcccggctt   60
ccgctgcccg tgagctaagg acggtccgct ccctctatcc agctccgaat cctgatccag   120
gcggggggcca ggggcccctc gcctcccctc tgaggaccga agatgagctt cctcttcagc   180
agccgctctt ctaaaacatt cataccaaag aagaatatcc ctgatggatc tcatcagtat   240
gaactcttaa aacatgcaga agcaactcta ggaagaggga atctgagaca agctgctatg   300
ttgcctgagg gagaggatct caatgaatgg agtgctgcga acacctgggg attctttttac   360
cagcaacaac atggtttttg ggaact   386

<210> 77
<211> 395
<212> DNA
<213> Homo sapiens

<400> 77
ggcacgaggc catctccaaa tactgcggtt gttcagaagc tcttagtttg tgggctgtcc   60
ttgttatttc acttgaccat ctgtacaaca ttacctgtgg agtacaacat tgatgagcat   120
tttcaagcta cagcttcgtg gccaacaaag attatctatc tgtatatctc tcttttggct   180
gccagaccca aatactattt tgcatggacg ctagctgatg ccattaataa tgctgcaggc   240
tttggtttca gagggtatga cgaaaatgga gcagctcgct gggacttaat ttccaatttg   300
agaattcaac aaatagagat gtcaacaagt ttcaagatgt ttcttgataa ttggaatatt   360
cagacagctc tttggctcaa aagggtgtgt tatga   395

<210> 78
<211> 389
<212> DNA
<213> Homo sapiens

<400> 78
ggcacgaggc aggccgggat gttcgtcctg gtggaaatgg tggacaccgt ccggatcccc   60
ccttggcagt ttgagaggaa gctcaacgac tccattgccg aggagctgaa caagaagttg   120
gccaacaagg tcgtgtacaa cgtgggactc tgcatttgtc tgtttgatat caccaaactg   180
gaggatgcct atgtattccc tggggatggc gcatcacaca ccaaagtcca tttttcgctgc   240
gtggtgtttc atccattcct agatgagatt ctcattggga agatcaaagg ctgcagccca   300
gaaggagtgc acgtctctct aggcttcttc gatgacattc tcatcccccc agagtcactg   360
cagcagccag ccaagttcga cgaagcgga   389

<210> 79
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(365)
<223> n = A,T,C or G

<400> 79
ggcacgagaa aacatttcat cttgattttt attaaggtga tatgtatgtt acttaacagc   60
tgtataatac acatttgcat gcattaggaa gttttttttg ggttttattc atcctgtagt   120
gatgtatctg tgacctcaac gagtaggcac ttctgtactg tactggtttc ttaaagtttc   180
ttttatcccg cccccacccc caacctcagc ctcaagtatg taannnnnnn nnnnnnnnnn   240
nnnnnnnnnn nnnnnnnnnn nnnnnaaaac aaagccccgt tttgtcccca ggctggataa   300
cagggcggga atctgggtta attgaaccct ttgcttttgg ggttaaggca attttcctgc   360

22

```
ctcac

<210> 80
<211> 376
<212> DNA
<213> Homo sapiens

<400> 80
ggcacgagct ggaaaccagc ccctaagctg ctttcacctt cggcccattt ctcactagcc    60
agcctctccc acggcctccc cagtttcttc aaatacaccc cctccactat tcaccatact   120
gccaccgtga tttatttaca acttttttgtc cggattacct cagtagcctt ctaattgtcc   180
cctttgcatc taaagtagcc cctctcatcc cccaaatctt accatgtcac tcttctacat   240
aattctggct ttccatgacc cataaaccac atttctcaag tgtgctctat gctggcttga   300
atatgttaat gatcttaatt ctacttttag tgcaattttc ttagagctgg catcactttc   360
atcatgacgt gagaac                                                    376

<210> 81
<211> 384
<212> DNA
<213> Homo sapiens

<400> 81
ggcacgagag gattgtgtga aattgtgcaa atgcatgaat gtgggctggg atagtaaaag    60
ggagggcccc ggagcagccc acctggggtc ctatctagta gacgcgcccg gtgcccaccc   120
attgctgtga tgccagcagc ccactgcaag catcctcttc ctttccaagg ttctgtctgg   180
tacatgaata ggtgtggcag gggtgggggc tcctgaagac caactagggg tactagggac   240
cttagactct tgcgagagcc tgcaccccat atcaggtggg gtcaatagat aaataccct    300
gcctccttgc cccttagttc tggtgtggtg ggcaagtcag aggaactgtt cttctcacac   360
tttcacgtgc tctcggtgga gatc                                          384

<210> 82
<211> 383
<212> DNA
<213> Homo sapiens

<400> 82
ggcacgagca aaggctcgca gcggccagaa acccggctcc gagcggcggc ggcccggctt    60
ccgctgcccg tgagctaagg acggtccgct ccctctagcc agctccgaat cctgatccag   120
gcggggggcca ggggcccctc gcctcccctc tgaggaccga agatgagctt cctcttcagc   180
agccgctctt ctaaaacatt caaaccaaag aagaatatcc ctgaaggatc tcatcagtat   240
gaactcttaa aacatgcaga agcaactcta ggaagtggga atctgagaca agctgttatg   300
ttgcctgagg gagaggatct caatgaatgg attgctgtga acaactgggg atttctttac   360
caggatcaca atggtaatat ggg                                           383

<210> 83
<211> 358
<212> DNA
<213> Homo sapiens

<400> 83
ggcacgagca gggccgcgcg gcggtgatca agcaccgctt ccccaagggc taccggcacc    60
cggcgctgga ggcgcggctt ggcagacggc ggacggtgca ggaggcccgg gcgctcctcc   120
gctgtcgccg cgctggaata tctgccccag ttgtcttttt tgtggactat gcttccaact   180
gcttatatat ggaagaaatt gaaggctcag tgactgttcg agattatatt cagtccacta   240
tggagactga aaaaaactcc ccagggtctc tccaacttag ccaagacaat tgggcaggtt   300
ttggctcgaa tgcacgatga agacctcatt catggtgatc tcaccacctc caacatgc    358

<210> 84
<211> 338
<212> DNA
```

<213> Homo sapiens

<400> 84
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aagatggctg agagggacag aatgctttat tttggagaga aacaatgttc taggtcaaac      60
tgagtctacc aaatgcacac tttcacaatg ggtctagaag aaatctggac aagtcttttc     120
atgtggtttt tctacgcatt gattacatgt ttgctcacag atgaagtggc cattctgcct     180
gcccctcaga acctctctgt actctcaacc aacatgaagc atctcttgat gtggagccca     240
gtgatcgcgc ctggagagac agtgtactat tctgtcgaat accagggggga gtacgagagc     300
ctgtacacga gccacatctg gattcccagc agctggtg                            338
```

<210> 85
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(475)
<223> n = A,T,C or G

<400> 85
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gtcgctcaat aggcaggagt ccatcgattc gaattcggca cgagnnnnnn nnnnnnnnnn      60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     120
nnnnnnnnnc gctccactgt gcactcctga cacatacttt ccccgctaca ctctctattc     180
tcccccctctt gtgttctctc tctatagcgg tagatagaga ggcctgtgtg tagataataa     240
acgtgtgtgt gtgtgtaaga aaggagacac aaacacgccc acnnnnnnnn nnnttggggc     300
cttttttttct tttgagccct ttggggaaaa aacccgggga aaacagccca tacccactat     360
ttggggcgcg ccaaaaaacc ttctttaaaa aaaatgtgtt aaatgttaaa ttttttagga     420
acannnnnnn nnnngcaaaa aatagcaccc caaaagcagg ggttttacat ttttg         475
```

<210> 86
<211> 467
<212> DNA
<213> Homo sapiens

<400> 86
```
gagcgatttt ctgcaggatt ctatcgattc gaattcggca cgagccatgg tctcagtgag      60
ggctggaatt tacagagaag tttggccagg gggtccacca tgctgccagt cagtttggga     120
aggaaacaga gaagctcggc catggggtcc accatgggggt taatgaggcc tggaaggaag     180
cagagaagtt tggccagggt gtccaccatg ctgcctcgca ggtgggggaag gaggaagaca     240
gagtggtcca aggcctccat catggcgtta gtcaggctgg aagggaggcg gggcagtttg     300
gccacgacat tcaccacaca gcagggcagg ctgggaaaga gggagacata gcagttcatg     360
gtgtccaacc tggggtccac gaggccgggga aggaggcagg gcaatttggc cagggagttc     420
accatcccct tgaacaggcc gggaaggaag caaacaaagc ggtccag                  467
```

<210> 87
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(449)
<223> n = A,T,C or G

<400> 87
```
cggggtggga aaccngannt tnannaancg gacggattct cccgttccga atagcctttt      60
acagaagatt cttcacagct atgtgcctga agagatcang gatggaaatc aagttcgagt     120
tacctcatgg gatggcagga aatggggaga actggagggg gacacctatg accgggtgct     180
ggtggatgtg ccctgtacca cagaccgcca ctcccttcat gaggaggaga acaacatctt     240
```

```
taagcggtca aggaagaagg agcgacagat attgcctgtg ctgcaagtgc agcttcttgc    300
ggctggactc cttgccacca aaccaggagg ccatgttgtc tattctacct gctcactctc    360
acacttacag aacgagtatg tggtgcaagg tgccattgag ctcctgggca atcaatacag    420
catccaggta caggtggaag atctgactg                                      449


<210> 88
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

<400> 88
gtagtgtatg tgcagcctcc catcgattcg aattcggcac gagatcccct cttatatgat     60
gccccagccc aggagagata aaagcatcag caccatgaga ttcacctgcc tctggtcgtn    120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    240
nnnnnnnnnn actcttagac agcaaaaatg ctttctccca gtcttgttcc cttgttctca    300
gttcccaccc tgcctggata actactgttc ttggtttnnn nnnnnnnnnn nnnnnnnnnn    360
nagtctcgta ccagattcaa aaatcagtca actacttcaa aaacaatgac atgctggcta    420
cttagataga agaggaggc                                                 439


<210> 89
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(436)
<223> n = A,T,C or G

<400> 89
ggcacgagca tcaaatagta aatatagatc ttatgctgga aatgtcaacc tccctggcag     60
ctgtaacgcc catcattgaa agggaaagcg gaggacacca ttatgttaat atgactttac    120
ctgtcgatgc agttatatct gttgctccag aagaaacatg gggaaaagtt cgtaaactcc    180
tggttgatgc aattcataat caactaactg acatggaaaa atgtattttg aaatatatga    240
aaggaacatc tattgtggtc cctgaaccac tgcacttttt attaccaggg aaaaaaaatc    300
ttgtaacaat ttcatatcct tcaggaatac cagatggcca gctgcaggcc tataggaagg    360
agttacatga tcttttcaat ctgcctcacg acagacccta tttcaaaagg tctaatgctt    420
atcactttcc agatgn                                                    436


<210> 90
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(437)
<223> n = A,T,C or G

<400> 90
ggcacgagag atcatgcact accacatgca gcacgagcag taccggcagg tcatcagcgt     60
gtgtgagcgc catggggagc aggacccctc cttgtgggag caggccctca gctacttcgc    120
tcgcaaggag gaggactgca aggagtatgt ggcagctgtc ctcaagcata tcgagaacaa    180
gaacctcatg ccacctcttc tagtggtgca gaccctggcc cacaactcca cagccacact    240
```

```
ctccgtcatc  agggactacc  tggtccaaaa  actacagaaa  cagagccagc  agattgcaca     300
ggatgagctg  cgggtgcggc  ggtaccgaga  ggagaccacc  cgtatccgcc  aggagatcca     360
agagctcaag  gccagtccta  agattttcca  aaagaccaag  tgcagcatct  gtaacagtgc     420
cttggagttg  ccctcan                                                        437


<210> 91
<211> 437
<212> DNA
<213> Homo sapiens

<400> 91
ggcacgagct  tcagtcttat  gtcatttact  ctttaggaca  acctcttgaa  aaactaaatc      60
atttctttga  aggtgttgaa  gctcgcgtgg  cacagggcat  aagggaggag  gaagtaagtt     120
accaacttgc  atttaacaaa  caagaacttc  gtaaagtcat  taaggagtac  cctggaaagg     180
aagtaaaaaa  aggtctagat  aacctctaca  agaaagttga  taaacattta  tgtgaagaag     240
agaacttact  tcaggtggtg  tggcactcca  tgcaagatga  atttatacgc  cagtataagc     300
actttgaagg  tttgatagct  cgctgttatc  ctggatctgg  tgttacaatg  gaattcacta     360
ttcaggacat  tctggattat  tgttccagca  ttgcacagtc  ccactaaacc  ttgtgaaaga     420
agaaaagata  actgaat                                                        437


<210> 92
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(427)
<223> n = A,T,C or G

<400> 92
aacggctctt  ctncttttga  ggagcccatc  gagtcgaatt  cggcacgagg  cgagtctctg      60
ggtcgcgacg  ggaaggagtg  aaacacctct  ctgcgcctgc  gcgctccgtg  cctgcgaagc     120
aaacccggcc  tcaccttttc  ctgcccgaag  cagaagattc  tcgcaggcct  ggtttctccc     180
tccagaagac  cccccaccca  aatcctctgt  agctcctggg  agtgccctga  cccctgctgc     240
caccgtcctt  cagagagcaa  cggaagagct  tcccggaggg  cgaggaaaag  agggaaagta     300
gccagcaatg  tcgaacgcag  tgtataataa  gatgtggcat  cagacccaag  aagccctcgg     360
tgctttactc  gatgaagagc  ctcagacgat  gattgaacca  cacagaaatc  aggttttcat     420
ctttcaa                                                                    427


<210> 93
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

<400> 93
gtgacgatcc  catcattcaa  ttcggcacga  gctcacagcc  aaagttcctt  ctgcccccag      60
gctgagagtg  cttgatacac  ccttgaatcc  cctcttatat  gatgccccag  cccaggagag     120
ataaaagcat  cagcaccatg  agattcacct  gcctctggtc  gttagggaac  aatgggaggcc     180
tgcgatttgg  agttaaactc  tcagtgatct  ctgtgttgac  aacaccaaag  ctagaggaat     240
ccagtaggat  gtgggcatgg  ttttcccgga  aggctgactg  agcagttctg  caaatgtttg     300
caagtacagg  gcagaatttc  atccagcctc  agaaccttga  gccaagactc  agcatcagca     360
aagccaaaag  tttcatttct  tcgactgtgg  gagtgctagt  cccaaccttt  agatggccat     420
tcagttnta                                                                  429
```

26

```
<210> 94
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(421)
<223> n = A,T,C or G

<400> 94
ggcacgagat tatttacttg gtgtgtggtc accactgttt tttaaatgag tgttttcatt      60
tgtatcaaac tggacctgct ttcctcaagg attgcccaaa aggagacaca aatttactaa     120
acacttatca ataatagaac accgtgctag gcaatttcca tatactatta atttaatcct     180
cacaataact ttggaagaca gaaagtattt tctctgannn nnnnnnnnnn nnnnnnnnnn     240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     300
nnnnnnnnnn atcctctgtc tccaaagcct gtacttcatt caggacactt tcccccacat     360
ttagaaaagc tgtaattatc ttccagtgag acagcatagc acatgtgatc actgtccctt     420
c                                                                     421

<210> 95
<211> 421
<212> DNA
<213> Homo sapiens

<400> 95
ggcacgagat gagaagataa aattcagcgt tggcctttag actttgccat ccttaaggag      60
tgatggaagc caagtgaaca agcctcagtg acacaagtca aattcatagt ttcactctgg     120
gttttttgtt gttgtgtggt tattattctc actacagaaa gactgagttt catgctcctg     180
gctatgtcag atgtgaattt tcatgggtaa ctggacagtt aacaaaacag aagctgacaa     240
catagaagga cccatagcct tgaagttctc acacctttgc ctggaagatc ataacagtta     300
ctgcatcaac ggtgcttgtg cattccacca tgagctagag aaagccatct gcaggtgttt     360
tactggttat actggagaaa ggtgtctaaa attgaaatcg ccttacaatg tctgttctgg     420
a                                                                     421

<210> 96
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(418)
<223> n = A,T,C or G

<400> 96
tggatccatc gattcaattc ggcacgaggt tattttttaag aactttgct tactatattg      60
gatttacctg cggtgtgagt agctttaaat gtttgtgttt atacagataa gaaatgctat     120
ttctttctgg ttcctgcagc cattgaaaaa ccttttttcct tgcaaattat aatgttttttg     180
atagattttt atcaactgtg ggaaaccaaa cacaaagctg ataacctttc ttaaaaacga     240
cccagtcaca gtaaagaaga cacaagannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnng      418

<210> 97
<211> 418
<212> DNA
<213> Homo sapiens

<400> 97
```

27

```
atgctacatt gctactttgt tgcattgatc gccagacgac cactagattc gaaactgagc        60
gcgagatgat gaatctgtgt gttatgaaaa tgcatgctac cagtataaaa tgacattctc       120
tattaataac atctgcggtg cgacacacat aattgtccca atttttaata ttgatgggga       180
gcatgaagca ttttttttaat gtgttggcag gccccattaa atgcataaac tgcataggac      240
tcatgtggtc tgaatgtatt ttagggcttt ctgggaattg tcttgacaga gaacctcagc       300
tggacaaagc agccttgatc tgagtgagct aactgacaca atgaaactgt caggcatgtt       360
tctgctcctc tctctggctc ttttctgctt tttaacaggt gtcttcagtc agggaggg        418
```

<210> 98
<211> 417
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(417)
<223> n = A,T,C or G

<400> 98
```
catcgattcg aattcggcac gaggccaagt ggacaggcca tagcccccac agactggagg        60
gacgcggcta gggaatgtcc cacagagtgg ccagttatcc ctgagagaaa gagcaggttt       120
tagcggagac tctgaggctg ctttagaata tggtgggtgt gtggggcaaa agggacaccc       180
agggtgtat caagaggtca tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn         240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn         300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn         360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnn           417
```

<210> 99
<211> 416
<212> DNA
<213> Homo sapiens

<400> 99
```
ggcacgagct acctcagccc tgctccagga gacaccagca gctgggccag tggccctgag        60
agatggcccc gaagggagca tgtggtgaca gtcagcaaga ggaggaacac atctgtggac       120
gagaactatg agtgggactc agaattccct ggggacatgg aattgctgga gactttgcac       180
ctgggcttgg ccagctcccg gctcagacct gaagctgagc cagagctagg tgtgaagact       240
ccagaggagg gctgcctcct gaacactgcc catgttactg gccctgaggc ccgctgtgct       300
gcccttcggg aggaattcct ggccttccgc cgccgccgag atgctactag ggctcggcta       360
ccagcctatc gacagccagt ccccacccc gaacaggcca ctctgctgtg aacatt           416
```

<210> 100
<211> 417
<212> DNA
<213> Homo sapiens

<400> 100
```
ggcacgaggg aaaatgtagg ctaccagtag aaaatgacat tctctattaa taagatctga        60
ggtgcgacac acataattgt cccaattttt aagattgatg gggagcatga agcattttt       120
taatgtgttg gcaggccccca ttaaatgcat aaactgcata ggactcatgt ggtctgaatg      180
tattttaggg ctttctggga attgtcttga cagagaacct cagctggaca aagcagcctt       240
gatctgagtg agctaactga cacaatgaaa ctgtcaggca tgtttctgct cctctctctg       300
gctctttttct gcttttttaac aggtgtcttc agtcaaggag gacaggttga ctgtggtgag     360
ttccaggaca ccaaggtcta ctgcactcgg gaatctaacc cacactgtgg ctctgat         417
```

<210> 101
<211> 412
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (1)...(412)
<223> n = A,T,C or G

<400> 101
ggcacgagga aagtaaacgt gtatctcttg ttcattttta tagaactttt gcatactata        60
ttggatttac ctgcggtgtg actagcttta aatgtttgtg tttatacaga taagaaatgc       120
tatttctttc tggttcctgc agccattgaa aaaccttttt ccttgcaaat tataatgttt       180
ttgatagatt tttatcaact gtgggaaacc aaacacaaag ctgataacct ttcttaaaaa       240
cgacccagtc acagtaaaga agacacaaga nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nn              412


<210> 102
<211> 414
<212> DNA
<213> Homo sapiens

<400> 102
ggcacgaggt cttgctcaca tgttgtacta ctctctcctg gatgtcactt gtcacctcta        60
ccagccctcc tttctccaga tggcttcttc ataaccacca ggtcagaaga ggatccgttc       120
caatgatttt cctaaaacaa tggaagtgtt ttccaaagag cttataaggc attgtaggat       180
ctggcctgcc ctgactccac tttaccagaa ccatctgctg ctcttctctc ttgtgttact       240
caaggtatta gctgctgtgg caaatcaact ctgaaatctc cgtgacttaa tacaagagag       300
gtttatttct tactcacgct gggtgcactg ccacttggta acagaggagc tatggaaact       360
tgagacctaa gcagaaatga gttcaataat attgctacac tctaggactt tctc            414


<210> 103
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(410)
<223> n = A,T,C or G

<400> 103
ggcacgagga agagccggga ggatgtattg gttgttagga aaatgtaggc taccagtaga        60
aaatgacatt ctctattaat aagatctgag gtgcgacaca cataattgtc ccaattttta       120
agattgatgg ggagcatgaa gcattttttt aatgtgttgg caggccccat taaatgcata       180
aactgcatag gactcatgtg gtctgaatgt attttagggc tttctgggaa ttgtcttgac       240
agagaacctc agctggacaa agcagccttg atctgagtga gctaactgac acaatgaaac       300
tgtcaggcat gtttctgctc ctctctctgg ctcttttctg cttttaaca ggtgtcttca       360
gtcaaggagg acaggttgac tgtggtgagt ccaagacac ccaaggctan               410


<210> 104
<211> 411
<212> DNA
<213> Homo sapiens

<400> 104
ggcacgagat acgaatgggg tgtattttc gactgctcgc aggcacccc aggttatgtg        60
gacagagcta agcccaaagt tgtgattttc cactctgttc tgtccatgtc gagggaagat       120
aagtagaaag tgacacagta agagccagaa tacaccaggt gaaggagaga attgcattgt       180
gttttgagaa gtttcactga caagttatcc tgggctgtgg gacatcacta gctttgaaag       240
tgtagctggc acctcgtcca tctaatttga tgggtgtgtg tggggtgttg tgcacgcgtc       300
ggtctaacat atctgaaccc aggtgatttc tgttctcagg acgcttttag gtgacaagga       360
tcaggcatgt gaacaaataa ccatactgta aagctggctg tgctgggtct c              411

```
<210> 105
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

<400> 105
ggcacgagga agattctcgc agtcctggtt tctccctcca gaagaccccc cacccaaatg      60
ctctgtagct cctggtagtg ccctgacccc tgctgccacc gtccttcaga gagcaacgga     120
agagcttccc ggagggcgag gaaaagaggg aaagtagcca gcaatgtcga acgcaatgta     180
taataagatg tggcatcaga cccaagaagc cctcggtgct ttactcgata aagagcctca     240
gaagatgatt gaaccacaaa gaaatcaggt tttcatcttt caaacattag ccaccttcta     300
cgtaaagtat gtgcagatct ttagaaacct agagaatgtc tacgaccagt tcgtccaccc     360
ccagaaacga atactgatca ggaaagtcct ggacggngtg atgggccgca tcc            413

<210> 106
<211> 412
<212> DNA
<213> Homo sapiens

<400> 106
aggatcccat cgattctaat tcggcacgag ctccataagg cagaggtcta tgcgaggacg      60
cccggctgga ccacgagacc gcccattgat tgcgctggga caagaattcc ttatctttgg     120
aggcagtgaa acgactaata gctaaaggta atacagaaga actacgaaaa tgttttgggg     180
tccgaatgga gtttgtgaca gctggcctcc gagctgctat gggacctgga atttctcgta     240
tgaatgactt gaccatcatc cagactacac agggattttg cagatacctg aaaaacaat      300
tcagtgactt atagcagaaa ggcatccgga tcagttatga cgcccgagct catccatcca     360
gagggggtag catcaaaagg tttgcccgac ttgctgcaac cacatttatc ag             412

<210> 107
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(408)
<223> n = A,T,C or G

<400> 107
ggcacgagga aaaaccagtt tctctttat tgtctgttac taatctctat tctaaagatt       60
cagctcaatt ctcaaccata ctccaaactc tctcttttcc agctaccttt actccctctc     120
cttcaattcc actttcctct gcttacnnnn nnnnnnncnn nnnnnnnnnn nnnnnnnnnn     180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnggnn     240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naatgttttt     360
tttcattaaa gagagaaatc acctattcag gaccggcccc cacctttg                 408

<210> 108
<211> 405
<212> DNA
<213> Homo sapiens

<400> 108
ggcacgaggc ttacaggggt gaccagggcc cttcctaact cgaccgcatg tggattggtg      60
```

30

```
gctggcttgg gagggaggct gtccgatgct gacattcccc ttaacatggc cctgaccgtg      120
gctgtcaggg gccaccttgc ctcaccaggc cagccccact gggaatgggg tcagtcacag      180
cagaaccgtc caaaggtgga cctgatgtgg ccctgccgg gggcgcttgg cctcagcggg       240
ccatgggaga cccagtgaaa cgactctagt gtgaggcagt ggtcctgcca ctgactgaca      300
aaccctcttt gtaagcaaac ttgacaaata atgaatctac tgaactctgt tatagaacaa      360
gctcattctg catgaacttc tcttattgaa gcagaagcca cgtca                      405
```

```
<210> 109
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G
```

```
<400> 109
ggatcccatc gnttcgnatt cggcacgagg caaccagctc gtccagcgcg tggccctgct      60
gctcaaggag cagactgcgt acccccccgac acactacatc cggagggtgc cccagaggaa     120
gatccactac ttcacgggcc tgcaggcgct tcagctgctg ctgctgtgtg ccttcggcat      180
gagctccctg ccctacatga agatgatctt tcccctcatc atgatcgcca tgatccccat      240
ccgctatatc ctgctgcccc gaatcattga agccaagtac ttggatgtca tggacgctga     300
gcacaggcct tgactggcag accctgccca cgccccattc gccagccctc cacgtactcc     360
caagctggct ctggaactgt gaggggaagg ggaagatgtg tgg                        403
```

```
<210> 110
<211> 397
<212> DNA
<213> Homo sapiens

<400> 110
ggcacgagtc tgcttctgtc actgtcacat agacagccct gcatgcccc tgtctcacac        60
aggttgtaat gaagacagct ccttctcatc tttccataag cctgagatac aagttcaggg      120
actcagcaat gcactttagg actgagctag gaggcaaata tctgaagctt gctatgctgt      180
tctttccatt ccttttccct ctgaaacaca caaaataccca aaggaactta cgcaacacac     240
cactgagtcc tctaactaat catatgtgct cagacacagc tcaagcacac cccttagtta      300
agaaagaacc tccatataca ttaattttttt tctgcctaaa aataaaattg cgttgtggca     360
gcaatttgga aactacagca aagtctccaa aaaaatc                               397
```

```
<210> 111
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(401)
<223> n = A,T,C or G
```

```
<400> 111
ggcacgagag ccgttgcctt caccgccctt tctcctttta tccttttttta aacgctcttg     60
ggggttatgt ccgctgcttc ttgggtgccg agacatatag atggtggtct cgggccagcc      120
cctcctctcc ccgccttctg ggaggaggag gtcacacgct gatgggcact ggagaggcca      180
gaagagactc acaggagcgg gctgccttcc gcctggggct ccctgtgacc tctcagtccc      240
ctggcccggc cagccaccgt ccccagcacc caagcatgca attgcctgtc ccccccggcc     300
agcctcccca acttgatgtt tgcgtttttgt ttggggggat atttttcata attatttnnn     360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn c                          401
```

```
<210> 112
```

<211> 401
<212> DNA
<213> Homo sapiens

<400> 112
```
ggcacgaggg cagtccagca acaagccttt catttacatt aaattataac ttttcattca   60
ttcctaaacc aaacttaaaa ttctgctttc ctttgagtag aaggtattta acttgttttg  120
tttttccttc agaaggaatt taatgcaaac ggattgcagt cagcactttc tgaatgtttt  180
cacacagtat gcaaagctta catcatacca aggagtggag agttgaagtt tcctcccagt  240
gactccagtg acagaccaca cctagaaagc gtttctcttc ctgagtattt caaaaagatg  300
taaaagagct ggggagagta tgggaagaaa caatacagga ttgcctttaa ttaattaaga  360
attgcctcct gataaaagga aaaagaaatt aatgctggag g                      401
```

<210> 113
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(401)
<223> n = A,T,C or G

<400> 113
```
ggcacgaggc cccacgggcc ccatctcccc acaggcattg agggtaactg gggtaggctc   60
ctggagcagg tgggcaccat ggctttgtgg gccagccaaa gggaaaagga ggtgcttagg  120
agggaaaggg cagtggaatg gcgggagagg gctgtggaaa aaagggagcg agccctggag  180
gaggtggaaa gggccatcct ggagatgaag tggaaggtga gggctgagaa ggaggcatgc  240
cagcgggaga aagagctgcc tgcagcagta catcccttcc attttgttta aattgggctt  300
ggagaatcta ttctgaaaac attgactcta gacttgtaga anagagccat tttaattttc  360
accttcaatg gtaaaagcaa gggtaatttg gttgacattt t                      401
```

<210> 114
<211> 399
<212> DNA
<213> Homo sapiens

<400> 114
```
ggcacgagag cagaagattc tctcagtcct ggtttctccc tccagaagac cccccaccca   60
aatcctctgt agctcctggt agtgccctga cccctgctgc caccgtcctt cagagagcaa  120
cggaagagct tcccggaggg cgaggaaaag agggaaagta gccagcaatg tcgaacgcaa  180
tgtataataa gatgtggcat cagacccaag aagccctcgg tgctttactc gataaagagc  240
ctcagaagat gattgaacca caaagaaatc aggttttcat ctttcaaaca ttagccacct  300
tctacgtaaa gtatgtgcag atctttagaa acctagagaa tggctacgac caggtcgtcc  360
accccccagaa acgaatactg atcaggaaag tcctggacg                        399
```

<210> 115
<211> 399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G

<400> 115
```
ggcacgaggc tttttccaac ttttaaggat atcaggagag aagacactct tgatgtggag   60
gtttctgcca gtggctacac aaaggaaatg caggcagatg atgaactgct tcatccatta  120
ggtccagatg ataaaaatat tgaaacaaaa gagggatctg aattctcatt ttcagatgga  180
```

```
gaagtggcag aaaaagcaga ggtttacagg tcagaaaatg aaagtgaacg gaactgtcta        240
gaagaatcag agggctgcta ttgcagatca tctggagacc ctgaacaaat aaaggaagac        300
agtttatcag aagagagtgc tgatgcacgg agttttgaaa tgactgaatt caatcaagct        360
ttataagaaa taaaagggca ggttgttgaa acaactcn                                399


<210> 116
<211> 400
<212> DNA
<213> Homo sapiens


<400> 116
ggcacgagcg gaccgggccg agccgggccg cccgggcgca gtctttaacc atggcgtccc         60
tcttcaagaa gaaaactgtg gatgatgtaa taaaggaaca gaatcgagag ttacgaggta        120
cacagagggc tataatcaga gatcgagcag ctttagagaa acaagaaaaa cagctggaat        180
tagaaattaa gaaaatggcc aagattggta ataaggaagc ttgcaaagtt ttagccaaac        240
aacttgtgca tctacggaaa cagaagacga gaacttttgc tgtaagttca aaagttactt        300
ctatgtctac acaaacaaaa gtgatgaatt cccaaatgaa gatggctgga gcaatgtcta        360
ccacagcaaa aacaatgcag gcagttaaca agaagatggg                              400


<210> 117
<211> 402
<212> DNA
<213> Homo sapiens


<400> 117
ggcacgaggg gagatcgctc agctggccgt gtcctggcag gccacggcat atgcctccaa         60
ggacggggtc ctcactgagg ccatgatgga cgcctgtgtg caagatgctg tccagcagta        120
ccgacagaag atgcgctggc tgaaggcgga ggggcctggg cgcggggtcg agcaccccct        180
atccggagtc caaggcgaga ccctcacctc atggagcctg gccacggacc cctcctaccc        240
ctgccttgcc ggcccctgca catttaggat atgctcctgg atggggactg ggctgtgccc        300
agggcctctg tcccccagga tgtcttgtgg tggcggtcgg ccgttctgcc ccccagggca        360
ccccctgttg taggcactgg ctctaggagg gcaggcctcc tt                           402


<210> 118
<211> 395
<212> DNA
<213> Homo sapiens


<400> 118
ggcacgaggt agagatacga atggggtgta gtagccgact gctcgcaggc acccccaggt         60
tatgtggaca gagctaagcc caaagttgtg attttccact ctgttctgtc catgtcgagg        120
gaagataagt agaaagtgac acagtaagag ccagaataca ccaggtgaag gagagaattg        180
cattgtgttt tgagaagttt cactgacaag ttatcctggg ctgtgggaca tcactagctt        240
tgaaagtgta gctggcacct cgtccatcta atttgatggg tgtgtgtggg gtgttgggca        300
cgcgtcggcc tagcagatct gaacccaggt gatttctgtt ctcaggaagc ttttaggtga        360
caaggatcag gcatgtgaac aaataaccat actgg                                   395


<210> 119
<211> 144
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (1)...(144)
<223> n = A,T,C or G


<400> 119
ccggtaagga atatacttct tctgatacta aatatgccaa tatttaaaat gtaatattca         60
gggattacaa ctgtgagggc taaacacacg gaattaccca ccaattcctc tgtagttctc        120
```

```
tactaattca attttgcatc ctcn                                                      144

<210> 120
<211> 392
<212> DNA
<213> Homo sapiens

<400> 120
ggcacgagac caggtcataa gaggatccgt tccaatgatt ttcctaaaac aatggaagtg        60
ttttccaaag agcttataag gcattgtagg atctggcctg ccctgactcc actttaccag       120
aaccatctgc tgctcttctc tcttgtgtta ctcaaggtat tagctgctgt ggcaaatcaa       180
ctctgaaatc tccgtgactt aatacaagag aggtttattt cttactcacg ctgggtgcac       240
tgccacttgg taacagagga gctatggaaa cttgagacct aagcagaaat gagttcaata       300
atattgctac actctaggac tttctccaaa attaacaaca gaacaaaagt gcaaggcagt       360
gataacccat ctgacagcat ttggggagtg tt                                     392

<210> 121
<211> 395
<212> DNA
<213> Homo sapiens

<400> 121
ggcacgagat caatcacaaa agtttatcct taagacttcc cttcagctgc tggaaggcag        60
tcatcacatc tgtgaaaaga gtgctagtta aacaaatga gatcacaaat ttgaccattt       120
tattagacac cctctattag tgttaacaga caaagatgaa ggttaagttg aaatcaaatt       180
gaaatcatct tccctctgta cagattgcaa tatctgataa taccctcaac tttcttggtg       240
caaattaatt gcctggtact cacagtccag tgttaacagg caataatggt gtgattccag       300
aggagaggac taggtggcag gaaaataaat gagattagca gtatttgatt ggagccataa       360
gcataatttg gttccggcgg cggccaggtt taaaa                                  395

<210> 122
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 122
cgcccgcgcc tctctgttct ctctcgcgcg cggtgtctct ctcgatagag tgcgcgacct        60
gcacaccctc tgtgtggggt tctcgctccc cgtgtgcgcg cgcgcgcgct ctctgtggga       120
ctcgcacaca ccgcgcgcgc gcgcgctctc tgtggggggg ccctccccgc accttgtgtg       180
tgtgtgtctg tgttatctct gtgagatgtg cgtgnnnnnn nnnnntctgt gtgtgtgtct       240
gccctccgcg ccgtgtctgt tatatatgcg ctcgctcgct ggggcgcg                    288

<210> 123
<211> 393
<212> DNA
<213> Homo sapiens

<400> 123
ggcacgagga tccattcttc gaccccagga tgtgactcta aagaaggctg aaaatttttg        60
tccaaattgc catgcagata tcttgaacag caggacattt gcaggccttg tctactggac       120
ttttctccca aacaggacaa gcccaggcag ggctgcatgg agaggaatgg aacctggagc       180
tagaattaat tgcccactct cccaccctac cagtgcagcc cggcaagg6c aggaattggg       240
aggcctaagg tgggcatgaa agcttgggaa gcactgtcgt ctctcagaca ggcgtcctaa       300
agacctctag gctggaagct tgggcttgca agtggatccg ggaccgaggg tggtctcttg       360
gacaacccca ggaacttgga ccaaggcaga gcc                                    393
```

```
<210> 124
<211> 394
<212> DNA
<213> Homo sapiens

<400> 124
ccgcgacgag atgatgatct gcttcttcca ttatgcccag atgataaaaa ggattgatac      60
aaaagaggga tctgaattct cattttcaga tggagaagtg gccgaaaaag cagaggttta     120
caggtcagaa aatgaaagtg aacggaactg cctagaagaa tcagagggct gctattgcag     180
atcatctgga gaccctgaac aaaataaagga cgacagttta tcagaagaga gtgctgatgc     240
acggagtttt gaaatgactg aactcaatca agctttagaa gaaataaaag ggcaggctgt     300
tgaaaacacc tctgtaactg aattttctga ggagaaacac cgaacttgaa attcacaccg     360
gcctaatgtc caagaattca agggggggtc cctc                                 394


<210> 125
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(390)
<223> n = A,T,C or G

<400> 125
ggcacgagcc cttatacaaa catatatgaa catatatact tttttgttg tataaaaaca      60
ggatcacatt atagatatta ttctgtaact ttctgttttc acccaaaata cagcagagca     120
ctattttcca gaagcacgta gttctaactt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     180
nnnnnnnnnn nnnnnaactt tattcaagta cttcacattt taagtggaca ttccatttgt     240
ctgctataat ttacaattat agcaatactt tgagaaaggt ctttgcaagt atatccatat     300
gaactaatgt ctatgtagaa gatatgctgg ctcaaatatt atgtacattt aatgtcttaa     360
taaacaccgc tagattactt tccaggaagc                                      390


<210> 126
<211> 388
<212> DNA
<213> Homo sapiens

<400> 126
ggcacgaggt cagcacacat tactttaaca ctttggactt gaaattctga aagatcagaa      60
attccttact gtttgagatg attaggtttt agggactagc cattttatct cacatgactc     120
aggccttaat gctccattgc taatagctaa atgtggaaaa gtttagaatt acatttaatt     180
tagtcaactg ttaggctgca atcatttttt tttaaaaatc tgcttatggc attattcgag     240
ataacttgac caactctaaa atatatatgt aattacttct agatgtaagt agttttttcat     300
attaacaaca caatcaggct ctgtttcagt tagttcttag agtggtgaaa aaaaatcttt     360
acagtaagtg caaaattata atccaagg                                       388


<210> 127
<211> 388
<212> DNA
<213> Homo sapiens

<400> 127
ggcacgagag ttaatccaaa agacttccct tcagctgctg gaaatcagtc atcacatctg      60
tgaaaagagt gctagttata acaaatgaga tcacaaattt gaccatttta ttagacaccc     120
tctattagtg ttaacagaca aagatgaagg ttaagttgaa atcaaattga aatcatcttc     180
cctctgtaca gattgcaata tctgataata ccctcaactt tcttggtgca aattaattgc     240
ctggtactca cagtccagtg ttaacaggca ataatggtgt gattccagag gagaggacta     300
ggtggcagga aaataaatga gattagcagt atttgacttg gagccatagg catcaattct     360
```

35

```
gctccagctg tcgaccaggt tctaaaaa                                                    388
```

<210> 128
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 128
```
actgtgtgtg tgtctgtttt ctctctctct cttctcagtc acactttttt tttgggacac        60
accctccatc cgcgggggggg tttttttccc ggcgcgcgcc ctttttttttt gtgtgtttct       120
ctgcgcgcct ctctttttttc tctctcttcc cccccgcttt annnnnnnnn nnnnnngcgg        180
ggggggtttt cgcgcgttcn nnnnnnnnn nnctcttccg ccccccaca ggggggtgct           240
gtttattatc tttctttctc cctgagc                                            267
```

<210> 129
<211> 389
<212> DNA
<213> Homo sapiens

<400> 129
```
ggcacgagct tgactgcaaa cttgctgaag gtagggactg tttgtcttgg acttcgctgc        60
cagtccttag aacagtgtct gggacacagt gtgttctcaa atatttgttg ctggaataaa        120
tgaatgaact aaatcagtct tttagggatt tactgttaac caccatggga aaattaaata        180
aatgcgggga aggaaaacgt tctaaaatta gaagactact ttctactctc agcttctgat        240
tccctctgag ctaagaacca gacagcctta ggctggtaac tcctataagc tggtcctcct        300
cccatgctga ccccatcttt actgtacaat tcacttttca tggactgaag gcaccaccaa        360
gatagatcca ggagtgacaa ctccagtgg                                          389
```

<210> 130
<211> 319
<212> DNA
<213> Homo sapiens

<400> 130
```
tgttgtaact gggagtggag gcccagtggc tggggagaca ttaggtggtg gggcccagcc        60
cgacctccag gttcttcctt ctccctagct gttgctttgg tctggccact cccagccccc        120
ttgtcccctt ggaagcttgc cctgccctca tcttgcccat gccttctact gccaggagac        180
ttgcacccat ttcaacccta gggcgggggc aagtgggggca aggatggacc agcagaaggg       240
gggtaaggct ctgttcactt cccctgcct ccacagaacg aagccacgga ttccgttatc         300
ttcctccagt tttgttcct                                                      319
```

<210> 131
<211> 385
<212> DNA
<213> Homo sapiens

<400> 131
```
ggcacgagaa acgtttcagc tacgaaagtg agcttttttcc aacttttaag gatatcagga       60
gagaagacac tcttgatgtg gaggtttctg ccagtggcta cacaaaggaa atgcaggcag        120
atgatgaact gcttcatcca ttaggtccag atgataaaaa tattgaaaca aaagagggat        180
ctgaattctc attttcagat ggagaagtgg cagaaaaagc agaggtttac aggtcagaaa        240
atgaaagtga acggaactgt ctagaagaat cagagggctg ctattgcaga tcatctggag        300
accctgaaca aataaaggaa gacagtttat cagaagagag tgctgatgca cggagttttg        360
aaatgactga attcaatcaa gcttt                                              385
```

```
<210> 132
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

<400> 132
ggcacgaggg gaatagaggg tccctggtga cagggcaagg ctagatctgg agcctgcact        60
tggcctgtga catactgtct tgtttctgag aatcctcccc tacttctcta gataatctcc       120
aaacacttct gtgactactt aatcacaaag gaaattttca ggagatataa tcgaattcta       180
ttttacaaaa aaaaagagaa gggatctgaa tgttttcagt tcacgctagg gatcnnnnnn       240
nnnnnnnnnc ccaaacctga cgtttgagga cccgcctttt tttcagccaa tttaaaagat       300
ttttttaaggt ttagggttgg ttggccatta aaccatcccc ggaaagaaaa tgggggtaaa      360
agaccaagaa ggaggtcgcc aag                                               383

<210> 133
<211> 382
<212> DNA
<213> Homo sapiens

<400> 133
ggcacgagat aagatctgag gtgttacaca cataattgtc ccaattttta agattgatgg        60
ggagcatgaa gcattttttt aatgtgttgg caggccccat taaatgcata aactgcatag       120
gactcatgtg gtctgaatgt attttagggc tttctgggaa ttgtcttgac agagaacctc       180
agctggacaa agcagccttg atctgagtga gctaactgac acaatgaaac tgtcaggcat       240
gtttctgctc ctctctctgg ctcttttctg ctttttaaca ggtgtcttca gtcagggagg       300
acaggttgac tgtggtgagt tccaggacac caaggtctac tgcactcggg aatctaaccc       360
acactggggc cttgaatggc ca                                                382

<210> 134
<211> 375
<212> DNA
<213> Homo sapiens

<400> 134
ggcacgagca agcctttcat ttacattaaa ttataacttt tcattcattc ctaaaccaaa        60
cttaaaattc tgctttcctt tgagtagaag gtatttaact tgttttgttt ttccttcaga       120
aggaatttaa tgcaaacgga ttgcagtcag cactttctga atgttttcac acagtatgca       180
aagcttacat cataccaagg agtggagagt tgaagtttcc tcccagtgac tccagtgaca       240
gaccacacct agaaagcgtt tctcttcctg agtatttcaa aaagatgtaa aagagctggg       300
gagagtatgg gaagaaacaa tacaggattg cctttaatta attaagaatt gcctcctgat       360
aaaaggaaaa agaaa                                                        375

<210> 135
<211> 376
<212> DNA
<213> Homo sapiens

<400> 135
ggcacgagac ctgtttgagg tggaactcca agcagctcgc accttggagc gactggagct        60
ccagagtctg gaggcagctg agatagagcc ggaggcccag gcccagaggt cgcccaggcc       120
cacgggctca gatctgctcc ctggagcccc catcctcagt ctgcgcttct cctacatctg       180
ccctgaccgg cagttgcgtc gctatttggt gctggagcct gatgcccacg cagctgtcca       240
ggagctgctt gccgtgttga ccccagtcac caatgtggct gttcccctgc aggatctgag       300
tggcatagag ctgggcctgg caggccagag cctgcggcta gagtgggcag ctggggcggg       360
ccgctgtgtg ctgctg                                                       376
```

```
<210> 136
<211> 371
<212> DNA
<213> Homo sapiens

<400> 136
ggcacgaggt cacctctacc agccctcctt tctccagatg gcttcttcat aaccaccagg      60
tcagaagagg atccgttcca atgattttcc taaaacaatg gaagtgtttt ccaaagagct     120
tataaggcat tgtaggatct ggcctgccct gactccactt taccagaacc atctgctgct     180
cttctctctt gtgttactca aggtattagc tgctgtggca aatcaactct gaaatctccg     240
tgacttaata caagagaggt ttatttctta ctcacgctgg gtgcactgcc acttggtaac     300
agaggagcta tggaaacttg agacctaagc agaaatgagt tcaataatat tgctacactc     360
taggactttc t                                                          371


<210> 137
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 137
cagtttcttt gtgcgcgcgc cccccctttt ttctctctct ctccgcgcgg gcgtgtccct      60
ccnnnnnnnn nnctgtgtgt gcgctctctc cgccccatat atattgtgtt tttctctgtg     120
gannnnnnnn nntctctcta gagtcttttc tctcccctcg cgcgcacatt gttatacact     180
cctcccctct ctttcttttt acacacacat atatattgcg cccctctccc cccacacatt     240
tatatctctc tcacatct                                                   258


<210> 138
<211> 368
<212> DNA
<213> Homo sapiens

<400> 138
ggcacgagac attttgagac ttcttccaaa ttggtcccta gaaagttaca ctggtttgta      60
ctctcactta tgtcactgtt tataccacca ctgactgctg cctgctttat tatttcttta     120
atgagttgga ctgaacagtg gttaatcctg actctgtttt tgactgacag ttaacagtta     180
catgaaccat tcatattaca gctcttactt aaatttgacc aagccaggat atatctgtta     240
ggccacattc atttagggat catgttttcc aaagcaggtt tgggcaaaat taatccacag     300
gactgaaagg tatacatctg tgagttttgt tctcacttcc acctctaatt tgaagaacac     360
tttaattg                                                              368


<210> 139
<211> 372
<212> DNA
<213> Homo sapiens

<400> 139
acggcacgag ctggctcctc gttttctttg tggacagtct cattaccaac atcctcgttc      60
gggtctagga tgcctttctg ctcgagggga ccaacgcggc gattcgctat gccttggcca     120
ttatcttgta caacgagaag gacatcttga ggctacagaa tggcctggaa atctaccagg     180
acctgcgctt cttcaccaat accaactcca tcagccggaa gctgatgaac attgccttca     240
atgacatgaa ccccttccgc atgaaactat gcggcagct gtgcatggcc caccgtgagc      300
ggctggaggc tgatctgccg gagctggagc aacttaaggc aaagtacctg gctaggcagg     360
catcccggcg ca                                                         372
```

<210> 140
<211> 365
<212> DNA
<213> Homo sapiens

<400> 140
```
ggcacgaggc tgagagtgct tgatacaccc ttgaatcccc tcttatatga tgccccagcc      60
caggagagat aaaagcatca gcaccatgag attcacctgc ctctggtcgt tagggaacaa     120
tggaggcctg cgatttggag ttaaactctc agtgatctct gtgttgacaa caccaaagct     180
agaggaatcc agtaggatgt gggcatggtt ttcccggaag gctgactgag cagttctgca     240
aatgtttgca agtacagggc agaatttcat ccagcctcag aaccttgagc caagactcag     300
catcagcaaa gccaaaagtt tcatttcttt gactgtggga gtgctagtcc caacctttag     360
atggc                                                                 365
```

<210> 141
<211> 353
<212> DNA
<213> Homo sapiens

<400> 141
```
ggcacgagaa acaaaagaga gcaagagaga agacagtggg tgaagtcctg gttccagact      60
ccccttttttg ccgggatatg atggatctgt cagctggtga ggcccctcta agaggggtgg     120
tatcttcggg ccaggtgcct agagtcctag agagctagag atggagggaa attcagatca     180
tctaaaccct tcagcccttc actggacaga agaggaaact gaggctccat ctgcatgacg     240
ttcccagagt cacggcacaa attcatggaa gaagcagcag gaaactcagt tctccagtct     300
gggtccaatg tgtgttttag aaatatctcc acagggttaa tgactcaatt ttt           353
```

<210> 142
<211> 352
<212> DNA
<213> Homo sapiens

<400> 142
```
ggcacgaggc cactcggggg cccaggaacc cctcagttag ggcttctcag tcactgagcg      60
gaaggtgccc ccagaggggg cagccgcctg tgaggagcag gcgtgtctgg gtaaccatgt     120
ggctcctgct ggcctcccct gcctgtcccc aaagcacagg gctcagctcc agagggagac     180
gggctgggct gtcagtggtc ccaggtgcat cccactttcc agcagcactt ggtgccagca     240
gaggctgcag gtgtggcagg agggggccca gccgtgaggg caccaggttc aggcccggca     300
tctcagggtg gagagccagg gctgtcctga acctccagag ggggtgagct gg            352
```

<210> 143
<211> 470
<212> DNA
<213> Homo sapiens

<400> 143
```
gacttctgtc tttttaggat cccatcgact tcaattcggc acgaggtcat gagaaaggaa      60
ccaatggagt atgagaagtt tccagtgaaa aacagaaaga atccagtaga atttatttag     120
ggaagaggaa aagatgtgtt cggggtggcc ttggaagtga acgttgaagg actactgaga     180
ttggttcaag aaactgtgaa gggaaagaaa gggttatact gagaaatgga agagataatt     240
ttagaaactt gcgaaaaatg gcttaatcta aatgagtgtt aggggagata cagctgtgat     300
gataggttga gctcacatgg tggagagcca cagttgcggg tgcttgcact gataatgtga     360
gggcatggag acagacaata agttgaatgc tctttttta acaaaggaag ctaaaaggga     420
gggggatgct aatttgatca atacgtttgg gaaaacttat attttcttgg                470
```

<210> 144
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(456)
<223> n = A,T,C or G

<400> 144
tagcactttt gtttaggagg accccatcga ttcgaattcg gcacgagctg cactgagcag   60
caccggtgtt cttcatccgg ctgcaccccc aacagagctc tttcttcccc agatcccttt   120
tacagttgga ttctccctct tggatctggc tctgccttag tccgacctag agggatcagc   180
ttcgcccacg cccactctca cccggaacct ttcatctctt attgaagcct tttaggccca   240
ttgggatgtt cattagaact ctgaaaacta cagttctccc ctttatgagg actgcaccac   300
agctcgccct ctcctgggtt ccgcctggtt gcagagtgag cccatgggac agccctctga   360
aattatactg cttacaacca tgctgagtct gcaaggactt cgtccaagcc tttccgtcca   420
ggacctcaaa cagatccaat cacaagaaga gagatn   456

<210> 145
<211> 464
<212> DNA
<213> Homo sapiens

<400> 145
atcgcccata cggcgagccc accgacgcga attcggcacg aggggaaaca caggcctctt   60
ctgctttag gaccctcccc ctgccttgca gggggctcgg ggagagcaat atcaggagct   120
agggcttgct gctgcccaca ctcctgcttt ttgggatatc taactgctaa ggagggagtt   180
gacatccccc ttctggctca tgtgtctgac accaacaaca tgggctctgt ccctctctct   240
ttgactctcc ctttgtcctc cccatacagc tggggtgggg tggatcccta tacctggggc   300
aggcagcccc aaagtggtgg aggggatgg caaagactgt ataggcgcca ctggactctg   360
gcaaggcctt tattaccttt actccccttc ctctcccatc accagcctca aggcctgagg   420
tgtgcagggg ctcctggcag ctactgagtg agggttcctg gtcg   464

<210> 146
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

<400> 146
ggcacgagct gcactgagca gcaccggtgt tcttcatccg gctgcacccc caacagagct   60
ctttcttccc cagatccctt ttacagttgg attctccctc ttggatctgg ctctgcctta   120
gtccgaccta gagggatcag cttcgcccac gcccactctc acccggaacc tttcatctct   180
tattgaagcc ttttaggccc attgggatgt tcattagaac tctgaaaact acagttctcc   240
cctttatgag gactgcacca cagctcgccc tctcctgggt tccgcctggt tgcagagtga   300
gcccatggga cagccctctg aaattatact gcttacaacc atgctgagtc tgcaaggact   360
tcgtccaagc ctttccgtcc aggacctcaa acagatccaa tcacaagaag agagatttca   420
ggaaagagaa nattattcct atcatcgn   448

<210> 147
<211> 439
<212> DNA
<213> Homo sapiens

<400> 147
ggcacgagga aagttaagca actacaggaa atggctttgg gagttccaat atcagtctat   60
cttttattca acgcaatgac agcactgacc gaagaggcag ccgtgactgt aacacctcca   120
atcacagccc agcaagctga caacatagaa ggacccatag ccttgaagtt ctcacacctt   180
tgcctggaag atcataacag ttactgcatc aacggtgctt gtgcattcca ccatgagcta   240

40

```
gagaaagcca tctgcaggtg ttttactggt tatactggag aaaggtgtga gcacttgact      300
ttaacttcat atgctgtgga ttcttatgaa aaatacattg caattgggat tggtgttgga     ˉ360 ˉ
ttactattaa gtggttttct tgttattttt tactgctata taagaaagag gtgtctaaaa      420
ttgaaatcgc cttacaatg                                                   439


<210> 148
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

<400> 148
ccccgcgcgc gctccctctc tatctttttat acaaaatata gagagcgcac atctctgtgt      60
gtgagagagt ctgtgcgcgc gcgcatatat atatgggagg ggtgtctccc cccatctgtg     120
tgtctctcct cttgcggggc atatgcgtgc gcacacccgc gcgctgtgtc tcttttgtgc     180
cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncg cgcgcacaca cccacacacc     300
gtgtgttcta cagcgcgata aagagagaca caca                                 334


<210> 149
<211> 428
<212> DNA
<213> Homo sapiens

<400> 149
ggcacgaggt cctgagcagc ctcatgggag gtgaattaga gaaaacaaaa gagagcaaga      60
gagaagacag tgggtgaagt cctggttcca gactcccctt tttgccggga tatgatggat     120
ctgtcagctg gtgcctagag tcctagagag ctagagatgg aggggaaattc agatcatcta     180
aacccttcag cccttcactg gacagaagag gaaactgagg ctccatctgc atgacgttcc     240
cagagtcacg gcacaaattc atggaagaag cagcaggaaa ctcagttctc cagtctgggt     300
ccaatgtgtg ttttagaaat atctccacag ggttaatgac tcaattttttc atgcatgatt     360
gctagtaatg acaatcatgt tatgtttggt tctgtagctt tggaaatcac tccttccact     420
tgagtttc                                                              428


<210> 150
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(427)
<223> n = A,T,C or G

<400> 150
cgccccaaan nnnaatctct aaagggtaa ggagatacc taccttgtct ggtaggggag      60
atgtttcgtt ttcatgcttt accagaaaat ccacttccct gccgacctta gtttcaaagc     120
ttattcttaa ttagagacaa gaaacctgtt tcaacttgaa gacaccgtat gaggtgaatg     180
gacagccagc caccacaatg aaagaaatca aaccaggaat aacctatgct gaacccacgc     240
ctcaatcgtc cccaagtgtt tcctgacacg catctttgct tacagtgcat cacaactgaa     300
gaatgggggtt caacttgacg cttgcaaaat taccaaataa cgagctgcac ggccaagaga     360
gtcacaattc aggcaacagg agcgacgggc caggaaagaa caccacccctt cacaatgaat     420
ttgacac                                                               427


<210> 151
<211> 437
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(437)
<223> n = A,T,C or G

<400> 151
```
ccgagccgga tgnccttnnn gagtatngca angattccaa ttcggcacga gagacagtgg      60
catggagctt tgaaagacga gtaggtgtta gcaaggaaat aaggaggaac gggggttacg     120
ggcagaggag aaagcacatg ccaagtcagc aaagaaaagt agaattcgaa aacttttaa  .   180
aaatattact aaggattttc acaatgctgc actgggctag aaactgaagc taaaacagat     240
acgtggtccc tgctgctatg gggcttacgt tctacaggca aggacaggtt gtgatgaggg     300
ttctgaagga tagagaccaa gcatggaggg tgttgaggag gcttctgcga gacctgaatg     360
atgggaagcc acgaagtggg aggggtgggg gtccaggctg gaggggccca atgtatgtgt     420
agagggacta cagccct                                                   437
```

<210> 152
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

<400> 152
```
ggcacgagct gcactgagca gcaccggtgt tcttcatccg gctgcacccc caacagagct      60
ctttcttccc cagatccctt ttacagttgg attctccctc ttggatctgg ctctgcctta     120
gtccgaccta gagggatcag cttcgcccac gcccactctc acccggaacc tttcatctct     180
tattgaagcc tttaggccc attgggatgt tcattagaac tctgaaaact acagttctcc      240
cctttatgag gactgcacca cagctcgccc tctcctgggt tccgcctggt tgcagagtga     300
gcccatggga cagccctctg aaattatact gcttacaacc atgctgagtc tgcaaggact     360
tcgtccaagc ctttccgtcc agggacctca acagatccaa tcacaagaag agagatttca     420
ggaan                                                                 425
```

<210> 153
<211> 421
<212> DNA
<213> Homo sapiens

<400> 153
```
ggcacgagcc gtggctgcct cgtgagcctc ccagagccca ggcctccgtg gcctcctcct      60
gtgtgagtcc caccaggagc cacgtgcccg gccttgccct caaggatttt tgcttttctc     120
ctgtgcacct ggcgaggctg aaggcgaggg gtggaggagg ccccagcaca gcctcatctc     180
catgtgtaca cgtgtgtacg tgtgtatgcg tgtgtgtacg tgtgtatgcg tgtgtgtacg     240
cgtgtgtacg tgcgtgtgta cacatgcgtg gccgcctgtg gtgtgcacgt gtgctctggg     300
ctccgaggct tctccagagc tgggagctgg ctggcgtggc aaggcatgc tctggggcag      360
tgtgtccctc aggaaccagg gtcctccctc ccctttctgc ctggtcagcc ccgtggcctc     420
t                                                                     421
```

<210> 154
<211> 423
<212> DNA
<213> Homo sapiens

<400> 154
```
ggcatgagtg gaagggaggc agctgccttt gtttgccatg gatgggtagg ggctgcactg      60
```

42

agcagcagcg gtgttcttca tccggctgca cccccaacag agctctttct tccccagatc 120
ccttttacag ttggattctc cctcttggat ctggctctgc cttagtccga cctagaggga 180
tcagcttcgc ccacgcccac tctcacccgg aacctttcat ctcttattga agccttttag 240
gcccattggg atgttcatta gaactctgaa aactacagtt ctcccctta tgaggactgc 300
accacagctc gccctctcct gggttccgcc tggttgcaga gtgagcccat gggacagccc 360
tctgaaatta tactgcttac aaccatgctg agtctgcaag acttccgcc aagcctttcc 420
gtc   423

<210> 155
<211> 312
<212> DNA
<213> Homo sapiens

<400> 155
tctgtcactc acaaaacaca gtgcgcgcac atagcggggg gggagcacac acacaagatg 60
tgtgtgtata caacccgcgc gcgagagagc gctctctttt gtggggggga aaaaaactct 120
tatacacaca cgtgtgtgtg tgtcgctctc cgaaaataca cactataaca aacgcactgt 180
gtgtgtgaga cacacactcc tctctccgag tggggagaga gagatcgcgc tccactctta 240
aacacatatg cgctcacaga gagcatatat atgtttttt tgagagaaga gagagatctc 300
tttgtggttt ct   312

<210> 156
<211> 428
<212> DNA
<213> Homo sapiens

<400> 156
tgaccttcca ggctacctac gcaggtgtcg gggccaacaa gcacctgcag gagctggccc 60
aggaggaggt gaagcagcat gcccaggaac tctgggctgc ctacaggggt ctgctgcgag 120
ttgccttaga gcgcaagggc caggccctgg aggaggatga agacacagag acaagggacc 180
tccaggtgca tggattggtg ctgcccctca tgctgcccag cttctactca gagctcttca 240
cgctctacct gctgcttcat gagcgggagg acagcttcta cagccagggc attgccaact 300
tgagcctctt tcctgatacc caactgctcg agttcctgga tgtgcagaag cacttgtggc 360
ccctcaagga cctcacgctg acgagcaatc agaggtactc cctggtcagg gacaagtgtt 420
tcctgtca   428

<210> 157
<211> 430
<212> DNA
<213> Homo sapiens

<400> 157
ggcacgagag gactttgagc ccagagagat gaagtcattt gctcaaggca gcagtcagtg 60
gaagggcttg gagaaggaga aggggtctga aggtggtgtg ggacacatga gagtgatctc 120
gcagcttggt ttgctgcagc agactcggac aagcattgtt tcagtgcctg gtttctccct 180
ccacttgatg ggggccaact ccaacccaat gtcccattcc tatcctgaaa tgcttctaaa 240
ggcagtgccc tgagaaccac caacctcaca gcctgtctcc attttattgt cttctgggaa 300
cttctccctt ctgtctagca cctgtttgca ctgggattgt cctgtctgtc cttcagttgg 360
atcctggttt gcacccgatg aggatttagc aattttaggc tgtgcttcgg caaaggccaa 420
ctcacaatgg   430

<210> 158
<211> 405
<212> DNA
<213> Homo sapiens

<400> 158
ggcacgaggg aagatttcca gtggtctcaa tggtgtgaat cctatgaagg tgtcttattt 60
gttgaattag aggtgaaagc ctccttcctc actctttttt agaaacagtt tagtttttatt 120
attatgcaga atttgttgag caaattgcaa cagcccaagc cacagctagc tccacaagag 180

43

```
ccccttccatg agccctcaac ctgggatctc gtgtatcttt gttggaatgg acattaggtt      240
tccaagtcca ggcctgtgat ttagaagggt caggttgggt aggagagagg agagtcttgg      300
aggggctgct ccatgggggt cacacctctc tcctgtgggt tttcgctggt gattgagttc      360
tgaggcattt gctgcattga ctgttgtagc tttaactcgt gtgca                      405
```

```
<210> 159
<211> 403
<212> DNA
<213> Homo sapiens
```

```
<400> 159
ggcacgagcc tgactcaagg ggttttggaa gatttccagt ggtctcaatg gtgtgaatcc      60
tatgaaggtg tcttatttgt tgaattagag gtgaaagcct ccttcctcac tctttttttag     120
aaacagttta gttttattat tatgcagaat ttgttgagca aattgcaaca gcccaagcca      180
cagctagctc cacaagagcc cttccatgag ccctcaacct gggatctcgt gtatctttgt      240
tggaatggac attaggtttc caagtccagg cctgtgattt agaagggtca ggttgggtag      300
gagagaggag agtcttggag gggctgctcc atggggggtca cacctctctc ctgtgggttt      360
tcgctggtga ttgagttctg aggcatttgc tgcattgact gtg                       403
```

```
<210> 160
<211> 417
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(417)
<223> n = A,T,C or G
```

```
<400> 160
gttctgtggg aatagagggt ccctggtgac agggcagggc tagatctgga gcctgcactt      60
ggcctgtgac atactgtctt gtttctgaga atcctcccct acttctctag ttaatctcca      120
gagacttctg tgactactta atcacaaagg aaattttcag gaatattatc aaatactatt      180
ttagaaaaaa aaagagaagg gatttgaatg ttttcagttc agtttagtta tcnnnnnnnn     240
nnnnnnnccc caaactccag aatgggggcc ccccttctt taaccccacc taaaaatttt       300
tcggaggttc agggttggtt ggcaaattac aaaaacccca aaagaaaatg ggggttaacc      360
cccttggaaa agttttctta ctttgggggg tggccctttg acgtnggccc gggttac         417
```

```
<210> 161
<211> 300
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G
```

```
<400> 161
ctatatctct ctgcgccctc tcccctctt gtgttttccc ccgcccctct agagatatct       60
ctctcactcg cgggcgcaca cccccctta caaaatagg ggctctctgt gtgtggtgtt        120
tttcttgggc gcccctctt ttttttttctt tttgcgggcc cccccctgtg tgtctctctc     180
tagacacacc ccccgcgcg tgttttttat aaatatctgt ctctcacaca cccccctactg     240
cccctctgtg tgtgggcgcg ttcccccca cacacacaga gtgtgtgnnn nnnnnnnnnn       300
```

```
<210> 162
<211> 411
<212> DNA
<213> Homo sapiens
```

<400> 162

```
ggcacgaggg caccgagcct cctgtgggag gtcccgaggc agcttcgcct gctcggcctg        60
gctgcagccc tcacctgccg cagccttagc tgagcagccg ccgccactgg gcgcccccccg      120
ctccccactt cgccagcgcc cgctcctcgg ctcggcccgg ggtagtttgt agggacgcag      180
ctctccacgt gcgcgactgc gaggctggac gctacgggct cctggaaagg agcagacacc      240
agcatttgcc acaatgctgt catccactga ctttacattt gcttcctggg agcttgtggt      300
ccgcgttgac catcccaatg aagagcaggc agaaagacgt ccgcactgag aggattctgg      360
agacccttca cgttggaagg agtgatgctc aaggttagta gaacagatca a              411
```

<210> 163
<211> 412
<212> DNA
<213> Homo sapiens

<400> 163

```
gcacgatcca tcattcaatt cggacagcca ctccaactga cctgttccgt ggctgcctcg        60
agagcctccc atagcccagg cctccgtagg cctcctcctg tgtgagtccc accaggagcc      120
acgtgcccgg ccttgccctc aagggttttt gcttttctcc tgtgcacctg gctaggctga      180
aggcgagggg tggaggaggc cccagcacag cctcatctcc atgtgtacac gtgtgtacgt      240
gtgtatgcgt gtgtgtacgc gtgtacgcgt gtgtgtacgc gtgagtacgt gctgtgtgta      300
cacatgcgtg gccgcctgtg gtgtgcacgt gtgctctggg ctccgaggct tctccagagc      360
tgggagctgg ctggcgtggc aagggcatgc tctggggcag tgtgtccctc ag              412
```

<210> 164
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(411)
<223> n = A,T,C or G

<400> 164

```
ggcacgagag gatatggtgc aaaaaaatat gattttgtta accacaacaa aaagaaaggt        60
aagaaatgct aggagaaagc taaaagctcc atactaaaat aatggtccta atattaagca      120
aagtaaaatg tggtatgatt ttgagtggtc agcagagtgt aagaataatc tatttgcact      180
tgatactttc agctgtcaca gaggtcatag aattgggctt attgagaagg aaaggtaaat      240
gctagtacac tacttggctc agaagtgaac aaaattgcag tttgnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn n              411
```

<210> 165
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(415)
<223> n = A,T,C or G

<400> 165

```
ggcacgagag gatatggtgc aaaaaaatat gattttgtta accacaacaa aaagaaaggt        60
aagaaatgct aggagaaagc taaaagctcc atactaaaat aatggtccta atattaagca      120
aagtaaaatg tggtatgatt ttgagtggtc agcagagtgt aagaataatc tatttgcact      180
tgatactttc agctgtcaca gaggtcatag aattgggctt attgagaagg aaaggtaaat      240
gctagtacac tacttggctc agaagtgaac aaaattgcag tttgnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtn          415
```

<210> 166
<211> 403
<212> DNA
<213> Homo sapiens

<400> 166
ggcacgagga aggtgtcagg agcatcccat ttgtgtctct ctctctacct ctgtgaaggg   60
cgcgaatggg cagagcagaa cttctagaag ggaagatgag cacccaggat ccctcagatc   120
tgtggagcag atccgatgga gaggctgagc tgctccagga cttgggggtgg tatcacggca   180
acctcacacg ccatgctgct gaagctcttc tcctctcaaa tggatgtgac ggcagctacc   240
ttctgaggga cagcaatgag accaccgggc tgtactctct ctctgtgagg gccaaagatt   300
ctgttaaaca ctttcatgtt gaatatactg gatattcatt taaatttggc tttaatgaat   360
tctcatcttt gaaggatttt gccaagcatt ttgcaaatca gcg   403

<210> 167
<211> 407
<212> DNA
<213> Homo sapiens

<400> 167
ggcacgaggg gcgacaagct gttggagctg caatgggccg cggctgggga ttcttgtttg   60
gcctcctggg cgccgtgtgg ctgctcagct cgggccacgg agaggagcag ccccccggaga   120
cagcggcaca gaggtgcttc tgccaggtta gtggttactt ggatgattgt acctgtgatg   180
ttgaaaccat tgatagattt aataactaca ggcttttccc aagactacaa aaacttcttg   240
aaagtgacta ctttaggtat tacaaggtaa acctgaagag gccgtgtcct ttctggaatg   300
acatcagcca gtgtggaaga agggactgtg ctgtcaaacc atgtcaatct gatgaagttc   360
ctgatggaat taaatctgcg agctacaagt attctgaaga agccaat   407

<210> 168
<211> 416
<212> DNA
<213> Homo sapiens

<400> 168
ggcacgagac acaactttga gacaccccaa gtgctttctg cagaggttgt cgttggaaaa   60
ctgtcacctt acagaagcca attgcaagga ccttgctgct gtgttggttg tcagccggga   120
gctgacacac ctgtgcttgg ccaagaaccc cattgggaat acaggggtga agtttctgtg   180
tgagggcttg aggtaccccg agtgtaaaact gcagaccttg gtgctttgga actgcgacat   240
aactagcgat ggctgctgcg atctcacaaa gcttctccaa gaaaaatcaa gcctgttgtg   300
tttggatctg gggctgaatc acataggagt taagggaatg aagttcctgt gtgaggcttt   360
gaggaaacca ctgtgcaact tgagatgtct gtggttgtgg ggatgttcca tccctc   416

<210> 169
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(386)
<223> n = A,T,C or G

<400> 169
ggcacgagga atctcgcctc tgtctggtgt gttacctact gggggcacag gaacaatttc   60
ctcaaggaga cagtggcatg gagctttgaa agacgagtag gtgttagcaa ggaaataagg   120
aggaacgggg gttacgggca gaggagaaag cacatgccaa gtcagcaaag aaaagtagaa   180
ttcgaaaact ttttaaaaat attactaagg attttcacaa tgctgcactg ggctagaaac   240
tgaagctaaa acagatacgt ggtccctgct gctatggggc ttccgttcta gaggcaagga   300
caggttgtga tgagggttct gaaggataga gaccaagcag ggagggtgtt gaggaggctt   360

```
ctgcgagacc tgaaggatgg gaagcn                                              386
```

<210> 170
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(391)
<223> n = A,T,C or G

<400> 170
```
ggcacgagaa tagagggtcc ctggtgacag ggcagggcta gatctggagc ctgcacttgg         60
cctgtgacat actgtcttgt ttctgagaat cctcccctac ttctctagtt aatctccaga        120
gacttctgtg actacttaat cacaaaggaa attttcagga atattatcaa atactatttt        180
agaaaaaaaa agagaaggga tttgaatgtt ttcagttcag tttagttatc nnnnnnnnnn        240
nnnnncccaa aactcaagat tggggccccc ccctccttta accccgctaa aaagtttttt        300
gggggtttag ggtgggttgg caaataacaa aacccccaaa agaaaagggg ggtaaacccc        360
cttggaaaag tttcctaact ttggggggcg c                                       391
```

<210> 171
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(391)
<223> n = A,T,C or G

<400> 171
```
ggcacgagcc tgcatcgacc catttttcct catgacaaac tattggtgca nnnnnnnnnn         60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnact tagggccact        120
catctgtcat ggaaccagaa tctaaatcca aataggctgt tgccagtaca gatggtaagt        180
acatgtactt ctggcaggaa agcagaataa aagttgactg aacctgaaag tctcggaaat        240
ggtcttctca tttctattct gtaaagtgtc acgtcttcta ggcctacctc tgtcaatatt        300
gaaatacaaa attaactttt tctgcttttt atttcacaaa tcaacgggaa cagtcttagt        360
catttgtgtt ttatgagttt taattaggcc n                                       391
```

<210> 172
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 172
```
ggcacgagga cagtggcatg gagctttgaa agacgagtag gtgttagcaa ggaaataagg         60
aggaacgggg gttacgggca gaggagaaag cacatgccaa gtcagcaaag aaaagtagaa        120
ttcgaaaact ttttaaaaat attactaagg attttcacaa tgctgcactg ggctagaaac        180
tgaagctaaa acagatacgt ggtccctgct gctatggggc ttccgttcta gaggcaagga        240
caggttgtga tgagggttct gaaggataga gaccaagcag ggagggtgtt gaggaggctt        300
ctgcgagacc tgaaggatgg gaagccagga agtgggaggg gtggggtnc aggctggagg        360
ggcccaatgt angtgtaaag ggact                                              385
```

<210> 173

<211> 392
<212> DNA
<213> Homo sapiens

<400> 173
ggcacgagaa aggctggaag ggaggcagct gcctttgttt gccatggatg ggtaggggct   60
gcactgagca gcaccggtgt tcttcatccg gctgcacccc cgacagagct ctttcttccc   120
cagatccctt ttacagttgg attctccctc ttggatctgg ctctgcctta gtccgaccta   180
gagggatcag cttcgcccac gcccactctc acccggaacc tttcatctct tattgaagcc   240
ttttaggccc attgggatgt tcattagaac tctgaaaact acagttctcc cctttatgag   300
gactgcacca cagctcgccc tctcctgggt tccgcctggt tgcagagtga gcccatggga   360
cagccctctg aaattatact gcttacaacc at   392

<210> 174
<211> 394
<212> DNA
<213> Homo sapiens

<400> 174
ggcacgagat ggaatgacag cttttttttag tagcatatcc ttgcgctgtg ttagatggag   60
tctttgccct gatttccgtc ttttgaaaat ttatctggga tgtggacatc agtgggccag   120
atgtacaaaa aggaccttga actcttaaat tggaccagca aactgctgca gcgcaactct   180
catgcagatt tacatttgac tgttggagca atgaaagtaa acgtgtatct cttgttcatt   240
tttatagaac ttttgcatac tatattggat ttacctgcgg tgtgactagc tttaaatgtt   300
tgtgtttata cagataagaa atgctatttc tttctgggtc ctgcagccat tggaaaaact   360
tttttctttg gaaataataa ggttttttgat agat   394

<210> 175
<211> 387
<212> DNA
<213> Homo sapiens

<400> 175
ggcacgaggg cagttagggc tgccatgtgc tgggagctgt gtgtctgctc tccttcgtcc   60
gctcccccag ggcagtgtgg tagcacatcc cattgtagag atgagggcac cgaggcttcc   120
tggagcatac cacctggtcc cgttcatgag tggtggcaaa gctagcactc tcacttgtcc   180
attctgcctt cctggagacc agtgggatgg gtcagtacag cccaccacac cattagcccc   240
aggaacataa ggctgtggct agacagcagg ggtctcaggt tcatacatga ggactggctt   300
gtccttgagc acccactcac ctgtctatgt ggggaggaat cctacaatag gtcaccatgg   360
caggctgggg cttgctgacc ctgcccc   387

<210> 176
<211> 395
<212> DNA
<213> Homo sapiens

<400> 176
ggcacgagca gacctccatt acctccatcc ctgttggatt atttaaagaa agcctcagac   60
agtaagggct tttttaaaa gaataaaatg acttggtttg cgcttggaag caggggaagc   120
attcagatga gcggtttctg cattaaccct gcctatcacg catctcgtgt cctgtgtggc   180
tggcgagccc cccttggaag gttctggtgc ttcagctggc tcctgcagag tccacccccgc   240
ctcgtggtgg gaatgcagag cccttttgctt tcttcttgc cgcctgcttc ctgttcctgg   300
ggacccgctg ggcctttggt ctgcatcccc tggccaggtc cctcagggct gatgcgcgta   360
gaaggacttt gagcagtggt ggcagcactt gccct   395

<210> 177
<211> 388
<212> DNA
<213> Homo sapiens

```
<400> 177
ggcacgaggg acgctgcgga gcccgctcac ccgctccctg tacgtgaaca tgactagcgg          60
cccgggtggg ccggcggcgg ccgcgggcgg caggaaggag aaccaccagt ggtatgtgtg         120
caacagagag aaattatgcg aatcactcca ggctgtcttt gttcagagtt accttgatca         180
aggaacacag atcttcttaa acaacagcat tgagaaatcg ggctggctat ttatccaatt         240
atatcattct tttgtgtcat ctgtttttag cctgtttatg tctagaacat ctatcaatgg         300
gttgctagga agaggctcaa tgtttgtgtt ttcaccagat cagtttcaga gactgcttaa         360
aattaatcca gactggaaaa cccacaga                                            388

<210> 178
<211> 397
<212> DNA
<213> Homo sapiens

<400> 178
ggcacgagca ggatccctca gatctgtgga gcagatccga tggagaggct gagctgctcc          60
aggacttggg gtggtatcac ggcaacctca cacgccatgc tgctgaagct cttctcctct         120
caaatggatg tgacggcagc taccttctga gggacagcaa tgagaccacc gggctgtact         180
ctctctctgt gagggccaaa gattctgtta aacactttca tgttgaatat actggatatt         240
catttaaatt tggctttaat gaattctcat ctttgaagga ttttgtcaag cattttgcaa         300
atcagccttt gattggaagc gagacaggca ctctgatggt tctaaaacat ccctacccaa         360
gaaaagtgga agaaccctcc atttatgaat ctgtccg                                  397

<210> 179
<211> 397
<212> DNA
<213> Homo sapiens

<400> 179
ggcacgaggc gtggggcgac aagctgccgg agctgcaatg ggccgcggct ggggattctt          60
gtttggcctc ctgggcgccg tgtggctgct cagctcgggc cacggagagg agcagccccc         120
ggagacagcg gcacagaggt gcttctgcca ggttagtggt tacttggatg attgtacctg         180
tgatgttgaa accattgata gatttaataa ctacaggctt ttcccaagac tacaaaaact         240
tcttgaaagt gactacttta ggtattacaa ggtaaacctg aagaggccgt gtcctttctg         300
gaatgacatc agccagtgtg gaagaaggga ctgtgctgtc aaaccatgtc aatctgatga         360
agttcctgat ggaattaaat ctgcgagcta caagtat                                  397

<210> 180
<211> 399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G

<400> 180
ggcacgaggt cacccctttt gcctccatcc tcaaagacct ggtcttcaag tcatccgtca          60
gctgccaagt gttctgtaag aagatctact tcatctgggt gacgcggacc cagcgtcagt         120
ttgagtggct ggctgacatc atccgagagg tggaggagaa tgaccaccag gacctggtgt         180
ctgtgcacat ctacatcacc cagctggctg agaagttcga cctcaggacc actatgctgt         240
acatctgtga gcggcacttc cagaaggttc tgaaccggag tctattcaca ggcctgcgct         300
ccatcaccca ctttggccgt cccccctttg agcccttctt caactccctg caggaggtcc         360
acccccacgt ccggaagatc ggagtgttta gctgtggcn                                399

<210> 181
<211> 402
<212> DNA
<213> Homo sapiens
```

<400> 181

```
ggcacgaggc tacttcgctc gcaaggatta gtactgcaag gagtatgtgg cagctgtcct      60
ggagcatatc gagaacaaga acctcatgcc acctcttcta gtggtgcaga ccctggccca     120
catctccaca gccacactct gcgtcatcag ggactacctg gtccaaaaac tacagaaaca     180
gagccagcag attgcacagg atgagctgcg ggtgcggcgg taccgagagg agaccacccg     240
tatccgccag gagatccaag agctcaaggc cagtcctaag attttccaaa agaccaagtg     300
cagcatctgt aacagtgcct tggagatgcc ctcagtccac ttcctgtgtg ccactccttc     360
ccaccaacac tgctttgaga gttactcgga aagcgaagct ga                        402
```

<210> 182
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(384)
<223> n = A,T,C or G

<400> 182

```
ggcacgagag caactcaggc ctgctgggtt aactgcttac accattttcc ttcccctcct      60
cttccttgcc ttcgacactc ttaacctgga aaaagcacta atttgtcctc catatctgtg     120
gttttgtcat ttggaaaggt tgtagaaatc ctagagtatg tgaccttta agatgcactt      180
tttagaaaac tcaacatgtt gctcttgtgt taatagtttg ttctttttag tgttcggtat     240
tctcttgtgt ggtcatgccc cagtttattt aaccatccca tagatgttta ttttcccttg     300
taaagttggt tagcatgtan nnnnnnnnnn nnnnngggga aactcattct cnnnnnnnnn     360
nnnnnnnnnn nnnntgccc cttg                                             384
```

<210> 183
<211> 384
<212> DNA
<213> Homo sapiens

<400> 183

```
ggcacgaggg aaggtgaggg ctgagaagga ggcatgccag cgggagaaag agctgcctgc      60
agcagtacat cccttccatt ttgtttaaat tgggcttgga gaatctattc tgaaaacatt     120
gactctagac ttgtagaaaa gagccatttt agtttcaact caaatgtaaa gcaaggtagt     180
ttggtgacat tttgctttta tgtgaaatag tgcacagtat gagttaatct gagcaggtct     240
gaattgacca aatgcttatc tacgaggttc ctagagctct gctgaccctt ggccgaaact     300
ctaaaatgta cctattaaag ataaatgctt ctaccaaagt aaaactctgt gagttgtttc     360
agggcagaat gtaccagcca gtca                                            384
```

<210> 184
<211> 379
<212> DNA
<213> Homo sapiens

<400> 184

```
ggcacgagct tcctccagcc tccacagcct ggctcagtg tccctgtgta caagacccag       60
tgacttccag gctcccagaa accccaccct aaccatgggc caacccagaa caccccactc     120
tccaccactg gccaaagaac atgccagcag ctgcccccca tccatcacca actccatggt     180
ggacataccc attgtgctga tcaacggctg cccagaacca gggtcttctc caccccagcg     240
gaccccagga caccagaact ccgttcaacc tggagctgct tctcccagca acccctgtcc     300
agccaccagg agcaacagcc agaccctgtc agatgccccc tttaccacat gcccagaggg     360
tacgtcgtaa accaatatt                                                  379
```

<210> 185
<211> 368
<212> DNA

<213> Homo sapiens

<400> 185
ggcacgagac ccggtccagg tgccctacgt cggcgcgagc gcgcggcagg tggagcacgt   60
gttgtcgctg ctgcgaggac gccccggaaa aacggtggat ctgggctctg gcgacggcag   120
gatcgtgctg gcggcccaca ggtgcggcct ccgcccggcc gtgggctacg agctgaaccc   180
ctggctggtg gcgctggcgc ggctgcacgc ctggagggcc ggctgtgccg gcagcgtctg   240
ctatcgccgc aaggatctct ggaaggtaac ctggggatcc ctggccaccc gctgacagcc   300
caaggtgcgg ctgacacctg cgagggctgg gggccgggac tcggaagctg cgatgacccg   360
gtgcccac   368

<210> 186
<211> 375
<212> DNA
<213> Homo sapiens

<400> 186
ggcacgaggt ctcacagagc gagaaggtgt caggagcagc ccatttgtgt ctctctctct   60
acctctgtga agggcgcgaa tgggcagagc agaacttcta gaagggaaga tgagcaccca   120
ggatccctca gatctgtgga gcagatccga tggagaggct gagctgctcc aggacttggg   180
gtggtatcac ggcaacctca cacgccatgc tgctgaagct cttctcctct caaatggatg   240
tgacggcagc taccttctga gggacagcaa tgagaccacc gggctgtact ctctctctgt   300
gagggccaaa gattctgtta aacactttca tgttgaatat actggatatt catttaaatt   360
tggctgtaat gaatt   375

<210> 187
<211> 368
<212> DNA
<213> Homo sapiens

<400> 187
ggcacgaggc cgtgcagagc ctgtatggta agcccctagg gggctcaaag gccggccagc   60
tcccaggaaa gatgtgcact gactttgaaa cctgggactc ctacagcccc caaggaaggc   120
gccctgaaac gcagggccct aaatactgcc actcttcctt cgatgccatc actgtagaca   180
ggcaacagca actgtacatt tttaaaggga gccatttctg ggaggcggca gctgatggca   240
acgactcaga gccccgtcca ctgcaggaaa gatgggtcgg gctgcccccc aacattgagg   300
ctgcggcagc gtcattgaat gatggagatt tctacttctt caaagggggg cgatgctgga   360
ggatccgg   368

<210> 188
<211> 436
<212> DNA
<213> Homo sapiens

<400> 188
ggcacgagaa ggggctgggg tgggctcagg caaggcctgg ggccctggcc ttcttcctgg   60
caggggagg cagggactg tgcaggggct cagggaggcc tcccccacct gccccctgac   120
cacacccact ctgatgaggc tcatggcctc ctggcaggtc gacggaggag atcatcgccc   180
tcttcatttc catcacgttt gtgctggatg ccgtcaaggg cacggttaaa atcttctgga   240
agtactacta tgggcattac ttggacgact atcacacaaa aaggacttca tcccttgtca   300
gcctgtcagg cctcggcgcc agcctcaacg ccagcctcca cactgccctc aatgccagct   360
tcctcgccag ccccacggag ctgccctcgg ccacacactc aggccaggcg accgccgtgc   420
tcagcctcct catcat   436

<210> 189
<211> 435
<212> DNA
<213> Homo sapiens

<220>

51

<221> misc_feature
<222> (1)...(435)
<223> n = A,T,C or G

<400> 189
ggcacgagac agaccctttc ttcctaaagg ctttgtggca tcagacacat aaagggtata   60
tgtagtgtgg agcactaacc atggcagggt aatttattcc aggcacagag tcataattct   120
ggaaacatct agactcactg cattaacaga gcattttgtt tctaaagtag acctcttatg   180
tcatccagat ttcactcatt ctgaccacag ccaggaagct gagggtgaag ccagaattag   240
ctgaaaccca ccaagagctg catagagcac gtttagctag agtaggagtt tgcagtgctc   300
atatgggaaa tgctgctgct atacttttag gaatttctga gtgcaattta gaaacatcta   360
gcacacttga aacactgcgt atcattntcc tcactcatga atatagtcat cagaattcat   420
aaatagttta cctga   435

<210> 190
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(437)
<223> n = A,T,C or G

<400> 190
ggcacgagat taggaccctt ccttggcaca ggggtgagaa agagcttggg gaacgcttgg   60
cattatggag ggctggaagg ggctcaaccc cgatttggag agaagtttgg gatggagtgg   120
gcgagagatt gagagagcga gcaggaaaag aggtcttgga gcctgggact gatggtggat   180
aaggcctgga aagaagatga cgaggaggag gagagaggga agtggggtgg atgaggagca   240
ggctgacacc tgggctgccc tcaatcccca aggccaggga gggcggngct ggcccctggg   300
aagaactggg tctctgggct ccctatgcac tgcccaaact ggctgagcca ggagtggggc   360
aggaagtgag agtcaaggcc cagcaaaagg agggggagga gctgccaatt ataaccttgt   420
gganggaccg gtttgng   437

<210> 191
<211> 434
<212> DNA
<213> Homo sapiens

<400> 191
ggcacgagaa gaaactgtga agggaaagaa aggtttatac tgagaaatgg aagagataat   60
tttagaaact tgtgaaaaat ggcttaatct aaatgagtgt taggggagat acagttgtga   120
tgataggttg agctcacatg gtggagagcc acagttgcgg gtgcttgcac tgataatgtg   180
agggcatgga gacagacaat aggttgaatg ctcttttttt acaaaaggaa gtagaaaggg   240
agggggatgt aaatttgata aataggttgg tgaaaactta tattttcttg taaagagaga   300
gaactgagca tgttgtaggt ataaggtaaa aaggcgtgaa gaggaatatt tcgttgataa   360
tgaaagtgag cagctaggga agaaaactcc cagaggaaga gggaggcaag gaaatcaaga   420
acacacttaa agtg   434

<210> 192
<211> 323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(323)
<223> n = A,T,C or G

<400> 192

```
gggtctctcg cccccctctc tctcttttgt gtgtctctct ctctgtcccg tgtgtgnnnn        60
nnnnnnnnnt ctctctatat ctcgcgcgcg cgcactcccg tgtgtgtgtg tgaccccgcc       120
ccctcatgcg ctctctcatt tgtggagaga gagaccgcta tctatctctc tctcccccgc       180
cctatacaca tctccctctc tgtgaaagag acgtgtgtgt gtctccacac cccttgggcg       240
cgcgcgcgcc accccctctc ctggggggggg tgtcctctct gtatatatat atgtgcacac       300
acgcgcgcgc gctctgtgtt gtt                                               323
```

<210> 193
<211> 412
<212> DNA
<213> Homo sapiens

<400> 193
```
ggcacgagaa ggggccgtga cagccgttgc catctgctgc cggagccggc acctggcgca        60
ggcctcccag gagctccagt gacagcccca tcccaggatg ggtgtctggg gagggtcaag       120
ggctggggct gagctttaaa atggttccga cttgtccctc tctcagccct ccatggcctg       180
gcacgagggg atggggatgc ttccgccttt ccggggctgc tggcctggcc cttgagtggg       240
gcagcctcct tgcctggaac tcactcactc tgggtgcctc ctccccaggt ggaggtgcca       300
ggaagctccc tccctcactg tggggcattt caccattcaa acaggtcgag ctgtgctcgg       360
gtgctgccag ctgctcccaa tgtgccgatg tccgtgggca gaatgacttt ta               412
```

<210> 194
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(405)
<223> n = A,T,C or G

<400> 194
```
cgttgctgtc ggtcagcaat gaaataaata tcttgtagaa tgttcnnnnn nnnnnnnnnn        60
nngaaccctc ggggggccctt ttttcccgaa acccccactg gaaaaaaacc cttgggggggt       120
tggcaaaacc ccccaataaa aggggggggaa aaaaaggctt tttttggaaa aatggggggggg       180
tctttgcttt ttttggaccc ctttaaagcg gggaaaacca ggttaacccc ccccagggggc       240
nnnnnnnnnn gtttcagggc cnnnnnnnnnn nnnnnnnnnt tttttccctn tctcccttct       300
gtctcgccct gctgcgctgc cgttttctcg ttccactccc cccgttttttg tactcccccc       360
gtgccgttga cgtccaccc tattctttcg cgccggtgca ccccc                        405
```

<210> 195
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

<400> 195
```
ggcacgagat taggacccct ccttggcaca ggggtgagaa agagcttggg gaacgcttgg        60
cattatggag ggctggaagg ggctcaaccc cgatttggag agaagtttgg gatggagtgg       120
gcgagagatt gagagagcga gcaggaaaag aggtcttgga gcctgggact gatggtggat       180
aaggccttga aagaagatga cgaggaggag gagagaggga agtggggtgg atgaggagca       240
ngctgacacc tgggctgccc tcaatcccca aggccaggga gggcggngct ggcccctggg       300
aagaactggg tctctgggct ccctaggcac tgcccaaact ggctgagcca ggagtggggc       360
aagaaatgag agttcaggcc caacacaagg aggggggaggg                            400
```

<210> 196
```

53

<211> 402
<212> DNA
<213> Homo sapiens

<400> 196
```
ggcacgagat taggacccit ccttggctca ggggtgagaa agagcttggg gaacgcttgg      60
cattatggag ggctggaagg ggctcaaccc cgatttggag agaagtttgg gatggagtgg     120
gcgagagatt gatagagcga gcaggaaaag aggtcttgga gcctgggact gatggtggat     180
aaggcctgga aagaagatac taggaggagg agagagggaa gtggggtgga tgaggagcag     240
gctgacacct gggctgccct caatccccaa ggccagggag ggcggggctg gcccctggga     300
agaactgggt ctctgggctc cctaggcact gcccaaactg gctgaaccag gagtggggca     360
agaagtgaga gtcaaggccc aacaaaagga gggggaggag ct                        402
```

<210> 197
<211> 401
<212> DNA
<213> Homo sapiens

<400> 197
```
ggcacgagct ctcagcggcc ggtttctgcg tccgctgccg caggttccac cgcgctccag      60
gtattttttt ttctgaagga aagctgcttc ctcatatgtt tcaagaatgg ctctccctat     120
cattgtaaaa tggggtggac aggagtattc agtgaccaca ctttcagaag atgatactgt     180
gctcgatctc aaacagtttc tcaagaccct tacaggagtt cttccagaac gccaaaagtt     240
acttggactc aaagttaaag gcaaacctgc agaaaatgat gttaagcttg gagctctcaa     300
actgaaacca aatactaaaa tcatgatgat gggaactcgt gaggagagct tggaagatgt     360
cttaggtcca cccctgaca atgatgatgt tgttaatgac t                         401
```

<210> 198
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(397)
<223> n = A,T,C or G

<400> 198
```
tgcatattag acattcttaa cagggcggca gtctagtgtt gaaagtttta tttttccatt      60
tttctttaa gcaaatttt tttaaaaaat tctgattnnn nnnnnnnnn nnnnnnnnnn         120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tctgatttaa       240
ttcttttatt tatcataagg ggtttaattc ctgaagtaaa ggtttgcacc tattaaactt      300
aaaactgcca aatgatttt gttcttttat gtgcgcgata gaaatacaaa gaatggagtg       360
gccacctcct cccttcaag ctagggcagc agggacg                               397
```

<210> 199
<211> 398
<212> DNA
<213> Homo sapiens

<400> 199
```
ggcacgagaa gaaaggttta tactgagaaa tggaagagat aattttagaa acttgtgaaa      60
aatggcttaa tctaaatgag tgttagggga gatacagttg tgatgatagg ttgagctcac     120
atggtggaga gccacagttg cgggtgcttg cactgataat gtgagggcat ggagacagac     180
aataggttga atgctctttt tttacaaaag gaagtagaaa gggagggga tgtaaatttg       240
ataaataggt tggtgaaaac ttatatttc ttgtaaagag agagaactga gcatgttgta      300
ggtataaggt aaaaaggcgt gaagaggaat atttcgttga taatgaaagg gagcaactta     360
gggaaaaaaa cttcccaagg aggaggggag cagggaaa                             398
```

<210> 200
<211> 394
<212> DNA
<213> Homo sapiens

<400> 200
```
ggcacgagca gaaggcagcg gtctaggcga ggacgcccgg ctggaccagg agaccgccca      60
gtggctgcgc tgggacaaga attccttaac tttggaggca gtgaaacgac taatagcaga     120
aggtaataaa gaagaactac gaaaatgttt tggggcccga atggagtttg ggacagctgg     180
cctccgagct gctatgggac ctggaatttc tcgtatgaat gacttgacca tcatccagac     240
tacacaggga ttttgcagat acctggaaaa acaattcagt gacttaaagc agaaaggcat     300
cgtgatcagt tttgacgccc gagctcatcc atccagtggg ggtagcagca gaaggtttgc     360
ccgacttgct gcaaccacat ttatcagtca gggg                                394
```

<210> 201
<211> 391
<212> DNA
<213> Homo sapiens

<400> 201
```
ggcacgagca ggcgtgtctg ggtaaccatg tggctcctgc tggcctcccc tgcctgtccc      60
caaagcacag ggctcagctc cagagggaga cgggctgggc tgtcagtggt cccaggtgca     120
tcccactttc cagcagcact tggtgccagc agaggctgca ggtgtggcag gagggggccc     180
agccgtgagg gcaccaggtt caggcccggc atctcagggt ggagagccag ggctgtcctg     240
aacctccaga ggggtgagc tgggaacttg tgtgaagggg cttttccaa aaggaaaacg     300
ggagcttact ggctcacggc tgatgcccca gacagcctcg aggatctgca ggtccccaga     360
caccaagcct gggtgctctc cagcagacgg c                                   391
```

<210> 202
<211> 392
<212> DNA
<213> Homo sapiens

<400> 202
```
ggcacgagat tctcagtaca ctaaacactt gttaagagtg ttgttaagag ccagagtgag      60
tatcatgtgg gacacagacc ctttcttcct aaaggctttg tggcatcaga cacataaagg     120
gtatatgtag tgtggagcac taaccatggc agggtaattt attccaggca cagagtcata     180
attctggaaa catctagact cactgcatta acagagcatt ttgtttctaa agtagacctc     240
ttatgtcatc cagatttcac tcattctgac cacagccagg aagctgaggg tgaagccaga     300
attagctgaa acccaccaag agctgcatag agcacgttta gctagagtag gagtttgcag     360
tgctcatatg ggaaatgctg ctgctatact tt                                  392
```

<210> 203
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

<400> 203
```
ggcacgagga ggagcccgcc ccggaggctg aggctctggc cgcagcccgg gagcggagca      60
gccgcttctt gagcggcctg gagctggtga gcagggtgc cgaggcgcgc gtgttccgtg     120
gccgcttcca gggccgcgcg gcggtgatca agcaccgctt ccccaagggc taccggcacc     180
cggcgctgga ggcgcggctt ggcagacggc ggacggtgca ggaggcccgg gcgctcctcc     240
gctgtcgccg cgctggaata tctgccccag ttgtcttttt tgtggactat gcttccaact     300
gcttatatat ggaagaaatt gaaggctcag tgactgttcg agattatatt cagtccacta     360
tggagactga aaaaactccc cagggtctct cn                                  392
```

<210> 204
<211> 386
<212> DNA
<213> Homo sapiens

<400> 204
ggcacgagaa gccttaaacc gggaaatttc catgctatct agaggttttt gatgtcatct   60
taagaaacac acttaagagc atcagattta ctgattgcat tttatgcttt aagtacgaaa   120
gggtttgtgc caatattcac tacgtattat gcagtattta tatcttttgt atgtaaaact   180
ttaactgatt tctgtcattc atcaatgagt agaagtaaat acattatagt tgattttgct   240
aaatcttaat ttaaaagcct catttttcta gaaatctaat tattcagtta ttcatgacaa   300
tattttttta aaagtaagaa attctgagtt gtcttcttgg agctgtaggt cttgaagcag   360
caacgtcttt caggggttgg agacag   386

<210> 205
<211> 295
<212> DNA
<213> Homo sapiens

<400> 205
gcgctctctt cacacacaaa agatatatat atagaaaggg agtgtggata tcccccctaa   60
atatgtgagc gtgtctctct cgaccgtctc ccccagagaa aatatctcta gagagagcac   120
aagtgtgttc tctgtgtctt gtgtgtgaga aaaaataagt gcccgcgcac acatagattt   180
ttatatcgct ccccccgcg cctttatata tgttttttggt gtgtatatat attttataca   240
aaaacatgtt tctttttgag gccccttaca acaaaaattt tgttctttttt gaacc   295

<210> 206
<211> 383
<212> DNA
<213> Homo sapiens

<400> 206
ggcacgaggt tacccatcag cccttgcaag tcccccactc aggcctctgg aaggtccagg   60
gatgggctct gatgagaggg taaaagatgc tcagggaaac acaggcctca gctgcctaga   120
ggaccctccc cctgccttgc agtgggctcg ggtagagcag tatcaggagc tagggttgtc   180
tgctgcccac actcctgctt tttgggatat ctaactgcta aggagggagt tgacatcccc   240
cttctggctc atgtgtctga caccaacaac atggtctctg tccctctctc tttgactctc   300
cctttgtcct ccccatagag ctggggtggg gtggatccct acctggggg caggcagccc   360
caaagtgggg gagggggatg gca   383

<210> 207
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 207
ggcacgagct tcaggataag aagctcatgg ccatgttcct agagtataac aaagccatcc   60
ggaactacac ccgcttcgat gactggtacc tgtgggttca gatgtacaag gggactgtgt   120
ccatgccagt cttccagtcc ttggaggcct actggcctgg tcttcagagc ctcattggag   180
acattgacaa tgccatgagg accttcctca actactacac tgtatggaag cagtttgggg   240
ggctcccgga attctacaac attcctcagg gatacacagt ggagaagcga gagggctacc   300
cacttcggcc agaacttatt gaaagcgcaa tgtacctcta ccgtgccacg gnggatccca   360
ccctcctaga actcggaaga gatgg   385

56

<210> 208
<211> 374
<212> DNA
<213> Homo sapiens

<400> 208
ggcacgagcc tcagctgcct agaggaccct ccccctgcct tgcagtgggc tcgggtagag   60
cagtatcagg agctagggtt gtctgctgcc cacactcctg cttttttggga tatctaactg   120
ctaaggaggg agttgacatc ccccttctgg ctcatgtgtc tgacaccaac aacatggtct   180
ctgtccctct ctctttgact ctccctttgt cctccccata gagctggggt ggggtggatc   240
cctatacctg gggcaggcag ccccaaagtg ggggaggggg atggcagaga ctgtaaaggc   300
gccactggac tctggcaagg cctttattac ctttactccc ctccctctcc catcaccagc   360
ctcaaggcct gagg   374

<210> 209
<211> 425
<212> DNA
<213> Homo sapiens

<400> 209
ggcacgagcc caagtgcttt ctgcagaggt tgtcgttgga aaactgtcac cttacagaag   60
ccaattgcaa ggaccttgct gctgtgttgg ttgtcagccg ggagctgaca cacctgtgct   120
tggccaagaa ccccattggg aatacagggg tgaagtttct gtgtgagggc ttgaggtacc   180
ccgagtgtaa actgcagacc ttggtgcttt ggaactgcga cataactagc gatggctgct   240
gcgatctcac aaagcttctc caagaaaaat caagcctgtt gtgtttggat ctggggctga   300
atcacatagg agttaaggga atgaagttcc tgtgtgaggc tttgaggaaa ccactgtgca   360
acttgagatg tctgtggttg tggggatgtt ccatccctcc gttcagttgt gaagacctct   420
gctct   425

<210> 210
<211> 396
<212> DNA
<213> Homo sapiens

<400> 210
ggcacgagga gcaaggaagt aatattgtca tatttgcagt tgagaatgat ccctgagtct   60
cggttttctt atctatgaaa tgaggctaag aataataaaa tagagaatta aatgagataa   120
tgcctgtaaa cagtgcctgg catatagctt attattcatc cagctaagag gcccttccat   180
atgtgaagct ttgctctgtg aggtctgtat tacaatcaca ttcagttata gctaattatt   240
tacttatgta gctatctctg aaacttagaa atgaaatcat cgaggaaaaa ggccatttct   300
tgatcctgtc tgtgttccct gttcccagca taaagcctaa cacgtattag gctaatgtca   360
ccgagcaaag aaagcatcaa agtggcgggt cgggcc   396

<210> 211
<211> 267
<212> DNA
<213> Homo sapiens

<400> 211
tctctagaga cacacagaga gggtgagcgg ctctctcaca cgcaccccag agtcaggcgc   60
gcacgctctc tctctctctc tctatccctc agaaagatct tccttttttcc ctctccctgt   120
gatgtagtga gagtttgatg catatttgtc cgtgtccgcc cccacagacc ctctacctct   180
ctgtgctggc cctatcttgt gtgtatgttt ccctctctct ctcgcgcgcc cacacgatgt   240
actttcttta tatgtagtgc cagttcc   267

<210> 212
<211> 396
<212> DNA
<213> Homo sapiens

57

<400> 212

```
ggcacgagcc aggaggaccc tcgcttcctc tccgccatgc ttgccacctc ttgcttctga      60
gagtccatct cagttcgcag ttctgtgact tgcattgacc tggctccaat caagctacaa     120
ctcaagcagt cacggggaga aggattgtag atgggccagt gactcacagg gtcaggcact     180
cggggggagcc tgagtcagga ggtcagtggg ccctggaagg gaggggggcaa gcctgggtgg     240
gtaaggttct gggccccagg caagaaggca gagtttctcc gcaggggtgt gtgcaagagc     300
tagctgcgca gaaggtctcc gctggctctc caagccgggc ttgtgaaata ggaacgccaa     360
catcctcctc cacaggcagt ggcaggcacc tcctcc                               396
```

<210> 213
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 213

```
tgggctgtct cgcccctcct ccctctctct ttgtactcac agtgaaaaat tatagtgttc      60
gcgtgcggggg cgcgctcttt actttttttt ctctctcaca catatttata tatatagaga     120
gagcctccga gcgctctgcc cccctcctct ctctctctct tcacgtgtgt gcatcaccca     180
ctcnnnnnnn nnnnctcttc cagagatacg ggggcttgtt tcctccgctc tctctcacac     240
gtctgtgcag cagaggacta ttttttttctt tccccgcgt ctcn                       284
```

<210> 214
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(440)
<223> n = A,T,C or G

<400> 214

```
ggcacgaggg attgcagtca gcactttctg aatgttttca cacagtatgc aaagcttaca      60
tcataccaag gagtggagag ttgaagtttc ctcccagtga ctccagtgac agaccacacc     120
tagaaagcgt ttctcttcct gagtatttca aaaagatgta aaagagctgg ggagagtatg     180
ggaagaaaca atacaggatt gcctttaatt aattaagaat tgcctcctga taaaaggaaa     240
aagaaattaa tgctggagta tggaggggtg ataaccttaa agattataaa tatttgttgt     300
ctataaatac ttataaatta taaacacaat ataattaaaa ttagaacatc aggaaaagaa     360
ttaaaatcct caggttgcaa aaccaaaatg ttaaccaaaa caaatactca tgagattcaa     420
ctttgttcac ctatagaaan                                                 440
```

<210> 215
<211> 439
<212> DNA
<213> Homo sapiens

<400> 215

```
ggcacgagtg cacaggggac acttacggac acagaaatgc acaggggagg ccgagcataa      60
ccagggggtga ggggcaggca gcagttgtag ttactgccgc ggggcactgc tatgtgcagg     120
gacagccagc acccagccca tcaccactcc ctgggctggc tggcaggtat ggcaccctgg     180
gagcccggca tatacccagg gcacccctac ggctgccgcc agtctcatgc ccaggtgggt     240
gctctgggct ggagcgaggg ccaggttttg ggccgaggct tccccaggca atcctgtgag     300
ctcccttcta gcctctgacc cagtctggtc tggcttgcat ggatgtaggg cttgggtgg     360
gaagttcagg tcctggcttt gcctttgcct gatgtggatg agcagctcac atgctcaggg     420
ccacctgaga ctgtcactg                                                  439
```

58

<210> 216
<211> 392
<212> DNA
<213> Homo sapiens

<400> 216
```
ggcacgagga gacagagaag tttggccagg gggtccacca tactgctggt caggttggga      60
aggaggcaga gaagtttggc caggtgggga aggaggaaga cagagtggtc caaggcctcc     120
atcatggcgt tagtcaggct ggaagggagg cggggcagtt tggccacgac attcaccaca     180
cagcagggca ggctgggaaa gagggagaca tagcagttca tggtgtccaa cctggggtcc     240
acgaggccgg gaaggaggca gggcagtttg gccagggagt tcaccatacc cttgaacagg     300
ccgggaagga agcagacaaa gcggtccaag ggttccacac tggggtccac caggctggga     360
aggaagcaga gaaacttggc ccaggggtca ac                                   392
```

<210> 217
<211> 394
<212> DNA
<213> Homo sapiens

<400> 217
```
ggcacgagcc catctggggc agcaccacgt ggatctctcc ctcgtcacct tcaactggtt      60
cctcgtggtc tttgcggaca gtctcattag caacatcctc cttcgggtct gggatgcctt     120
cctgtacgag gggacgaagg tggtgtttcg ctatgccttg gccattttca agtacaacga     180
gaaggagatc ttgaggctac agaatggcct ggaaatctac cagtacctgc gcttcttcac     240
caagaccatc tccaacagcc ggaagctgat gaacatcgcc ttcaatgaca tgaacccctt     300
ccgcatgaaa cagctgcggc agctgcgcat ggtccaccgg gagcggctgg aggctgagct     360
gcgggagctg gagcagctta aggcagagta cctg                                 394
```

<210> 218
<211> 432
<212> DNA
<213> Homo sapiens

<400> 218
```
acacccactt gtttgaggac accatcgatt cgaattcggc acgagcctag ccagcccctg      60
acgtgcctta caggagttct tccagacacg ccaaaagtga cttggactca aagttaaagg     120
caaacctgca gaaaatgatg ttaagcttgt agctctcaaa ctgaaaccac atactaatat     180
catgaggatg gcatctcgag aggagagctt ggaagatgtc ttaggtccac cccctgacaa     240
tgatgatgtt gttaatgact ttgatattga agatgaagta gttgaagtag aaaataggga     300
agaaaaccta ctgaaaattt ctcgcagagc gaaagagtac aaagtggaaa ttttgaatcc     360
tcccagggaa gggaaaaagc ttttggtgct agatgttgat tatacattat ttgaccacag     420
gtcttgtgca ag                                                         432
```

<210> 219
<211> 395
<212> DNA
<213> Homo sapiens

<400> 219
```
ggcacgagcc ctttactcct ctacccaaga tcttgcttgt ttctttctaa gttgcctctc      60
tatctagctt gcaggatttg agttgaggaa aacacagact tccatgagtt tgggaactac     120
gagagaaaag acagacagag tcaaatctac agcatatctc tcacctcagg aactggaaga     180
tgtattttat caatatgatg taaagtctga aatatacagc tttggaatcg tcctctggga     240
aatcgccact ggagatatcc cgtttcaagg ctgtaattct gagaagatcc gcaagctggt     300
ggctgtgaag cggcagcagg agccactggg tgaagactgc ccttcagagc tgcgggagat     360
cattgatgag tgccgggccc atgatccctc tgtgc                               395
```

<210> 220
<211> 487
```

59

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G

<400> 220
tgctctttttg atgatgccat cgattcgaat tcggcacgag cagctagctc agttcaaggt      60
ggaaatggct taacgagagg aacggcaaca gcaggtggct gaggactacg agctcagact     120
ggcccgggag caagcgcgag tgtgcgaact gcagagtggg aaccagcagc tggaggagca     180
gcgggtggag ctggtggaaa gactgcaggc catgctgcag gcccactggg atgaggccaa     240
ccagctgctc agcaccactc tcccgccgcc caaccctcca gctcctcctg ctggaccctc     300
cagccccggg cctcaggagc ccgagaagga ggagaggagg gtctggacta tgcctcccat     360
ggccgtggcc ctgaagcctg tattgcagca gagccgggaa gcaagggacg agctacctgg     420
agcgcctcct ggttttttgca gntcctcctc agatcttagc ctcctggtgg gcccctcttt     480
tcagagc                                                                487

<210> 221
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(365)
<223> n = A,T,C or G

<400> 221
ggatgccagt ggtgaggctg taagcgaaac tcttcagttt aaagctcaag atctcttaag      60
ggcagtccca agatccagag cagagatgta tgatgacgtc cacagcgatg gcagatactc     120
cctcagtgga tctgtagctc actctagaga tgccggaaga gaaggcctga gaagtgacgt     180
atttccaggg ccttccttca gatcaagcaa cccttccatc agtgatgaca gctactttcg     240
caaagaatgt ggccgggatc tggaatttttc tcactctgat tctcgggacc aggtcattgg     300
ccaccggaaa ttggggcatt tccgttctca ggactggaaa tttgcgctcc gtggttcttg     360
ggaan                                                                  365

<210> 222
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(376)
<223> n = A,T,C or G

<400> 222
ggcacgagga gatttcccgg cgggtcccgg cctctgcgtg cacgcgcctg cgtgctcgcg      60
ctcgcggttc tggcgctgct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     180
nnnnnnnnnn nnntgatggc agcagtggcc tgcctgaagc agccactgcc aagaatctag     240
ctgcagtnnn nnnnnnnnnn nnnnnnnnca tgctccacac agccaccgga agccaagaac     300
gcaccctcct gggtacagct gcaagccgcc agccgaggct gcggacccgg gcctccctgg     360
tgctctgggg gttggg                                                     376

<210> 223
<211> 399
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G

<400> 223
ggcacgaggg gtgacagagc ggctggcgca tgctcagtag agcagcctac ggcaagcagc    60
ctccctcagg gaacatcaca ggaagcagct gcaggacctg agtggacagc accagcagga   120
gctggccagt cagctagctc agttcaaggt ggaaatggca gaacgagagg aacggcaaca   180
gcaggtggct gaggactacg agctcagact ggcccgggag caagcgcgag tgtgcgaact   240
gcagagtggg aaccagcagc tggaggagca gcgggtggag ctggtggaaa gactgcaggc   300
catgctgcag gcccactggg atgaggccaa ccagctgctc agcaccactc ttccgccgcc   360
caaaccttca gcttcttctg cttgaccctc cagccccgn                          399

<210> 224
<211> 402
<212> DNA
<213> Homo sapiens

<400> 224
ggcacgaggg cagttcagta tcgatggaca gatcttccta ctctttgact cagagaagag    60
aatgtgggca acggttcatc ctggagccag aaagatgaaa gaaaagtggg agaatgacaa   120
ggatgtggcc atgtccttcc attacatctc aatgggagac tgcataggat ggcttgagga   180
cttcttgatg ggcatggaca gcaccctgga gccaagtgca ggagcaccac tcgccatgtc   240
ctcaggcaca acccaactca gggccacagc caccaccctc atcctttgct gcctcctcat   300
catcctcccc tgcttcatcc tccctggcat ctgaggagaa tcctttagag tgacaggtta   360
aagatgatac caaaaagccc ctgtgagcac ggtcttgatc ag                      402

<210> 225
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 225
ctctctttct ttctccctcc cccccgggc gcgctcattt atctcgtctc ttatgtctct     60
ctctctgtgt ctgtgacaga cacactcttt ttcatatagc gcgctccctt ttctttgctc   120
tcggggggg tctctctgta cgcgtgtgtt ctctctccag tgagtgtgca cgcctaggtg   180
agagagagtn nnnnnnnnnn nnnnntgtgt gtgaatttta tatatttcta tatctctcac   240
tctctgggtg tcacactctc cgtgtgtggg                                     270

<210> 226
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(404)
<223> n = A,T,C or G

<400> 226
ggcacgagaa ccctcccagg ctaagcccca atttggggct cgcctgccct gcatcaggga    60
gacatgtcag ctgaggagta attgaccaga tttctgcttt agaaatatgg cagtggaggc   120

```
aggagatggc atctgaggcc caggctgggg agaaggtgc tgggatgaga acctggagtt        180
cagaccaggg aagggatgag agcctaagaa gaggagctct caccctgaga caggctggtg        240
caggagtctg ctcgatccag gcctgggtcc ctggttccct ctgagcttgg gaggactatg        300
tgagacagaa caggaccagg ggcctgcatt ccccttgta ttattcatct tcnnnnnnnn        360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnn                         404
```

<210> 227
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

<400> 227
```
ggcacgagaa gtcactcaac ctctctgagc cttttcttca cctataaagt ggggatagta         60
actacctacc ttatggaagc atatgaggat tgtgtgaaat catccatgta gcccttccac        120
cgccacgtgg agtttggcat ggagcagttt ctaaatggaa gtcatcttga tcaggtgggc        180
tgccaacctc tctgagcctc agtttgctct ctagggaat ggggacaatg caatgggaat         240
ctgaggattg tgtgaaattg tgcaaatgca tgaatgtggg ctgggatagt aaaaagggagg        300
gccccggagc agcccacctg gggtcctatc tagtggacgc gcccggtgcc cacccattgc        360
tgtgatgcca gcagcccact gcaagcatn                                          389
```

<210> 228
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(384)
<223> n = A,T,C or G

<400> 228
```
ggcacgagct gccacctcta gaaagctgct ttcttctatc accgcttgcc cttgaattat         60
tccctgaatg aagccaagaa ccctcccagg ctaagcccca atttggggct cgcctgccct        120
gcatcaggga gacatgtcag ctgaggagta attgaccaga tttctgcttt agaaatatgg        180
cagtggaggc aggagatggc atctgaggcc caggctgggg agaaggtgc tgggatgaga         240
acctggagtt cagaccaggg aagggatgag agcctaagaa gaggagctct caccctgaga        300
caggctggtg caggagtctg ctcgatccag gcctgggtcc ctggttccct ctgagcttgg        360
gaggactatg tgagacagaa cagn                                               384
```

<210> 229
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 229
```
ggtgtctctc tctcgggggg gcccccctc tctctatttt tttttgcgcg cacactcact         60
ctctctctct ttttccccc gcgcgcgcgc acgcgctttt tttttctttt ttctnnnnnn        120
nnnnnactct ctctctttttc tcttttgtgt gggggtctcc ggcgcgcttc tctctctctc        180
tctcacccac agacactctc tctgtgtgcg cacctctctc tctcggggggg ccggatctct        240
ctcccccctc tctatctctg ttattttggg ggtcccctcc gcgctctcct ca                292
```

62

<210> 230
<211> 400
<212> DNA
<213> Homo sapiens

<400> 230
```
ggcacgaggt gggacagaag tagaagaggg tgaatggccc tggcaggcta gcctgcagtg      60
ggatgggagt catcgctgtg gagcaacctt aattaatgcc acatggcttg tgagtgctgc     120
tcactgtttt acaacatata agaaccctgc cagatggact gcttcctttg gagtaacaat     180
aaaaccttcg aaaatgaaac ggggtctccg gagaataatt gtccatgaaa aatacaaaca     240
cccatcacat gactatgata tttctcttgc agagctttct agccctgttc cctacacaaa     300
tgcagtacat agagtttgtc tccctgatgc atcctgtgag tttcaaccag gtgatgtgat     360
gtttgtgaca ggatttggag cactgaaaaa tgatggttac                           400
```

<210> 231
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

<400> 231
```
tatatagaca ccccgccttt tttctctctc tctctataca cacaccgtct ctctcccccg      60
tgtgtctctc ccctctcttt tgctcatact tatatacatc tacacacttg tgtggggggac    120
tctctctagc gctccctctc ttttgtgtgg gcgctctcac acacacacac nnnnnnnnnn     180
nnggagactc ctttctctgt ggagaatatg tgtgcgcacc atctctctct ctcttatttt     240
tccctcgcgc gcgcgctctg tgagagagac tctctgttct cacacatatg atatatatat     300
ccctcccctc tctcacactc gtgccccgcg cn                                   332
```

<210> 232
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G

<400> 232
```
ggcacgagaa ctccggctac gtttgctgtc ccaacaaata gaccagggtt ccctaagtgt      60
cgcttcctcc aagaagccct ccctgatgag ttgagccact ttagtttgtg ctcaggctca     120
ccctgcacgt cttggttgct ctcatcactg taatgatcta aaacacacgt ctgctcatga     180
gacccgcatc ccaccccga tgctggggcc gctcttggat tttcatgcct gctgccagca      240
cccaggggga gctccggaaa tgtctgctgg gggctcggaa tacccacctt tctggtaatg     300
cagcccagcg ggtcccagcc tcgttttcca gccctcactc anaatggagt cgctctggtt     360
cgaacgcctc tgancagtgt gtacctacgt gtcaggccca tccttcc                   407
```

<210> 233
<211> 406
<212> DNA
<213> Homo sapiens

<400> 233
```
ggcacgagga aagacccacg tgctgcctca tgtggccgac atcctcagca agtcttgccc      60
ggcacccagg tgagcctctg gtgggggtgg gtagtcacca ctcggctctg gaggatgagg     120
```

63

```
cctgggccat aatccagttg cagggacgga tgatctccat ctcgaaggtc ccagaggtaa      180
ctgcgttgtc ccatcctcca ggcatcccct gcggcgctgg ccaagtgcgt gctggccgag      240
gtccgaaagc aggtggtgga gtactacagc cacagaggcc tgcccccgag aagcctgggt      300
gtccctgccg gagaggccag cccaggctgc acaccgtgaa aatgtggagg gcgtaaaggg      360
ggggcccaga aagaaagtgt cccacacaac ctctgtttgc acatgg                     406


<210> 234
<211> 380
<212> DNA
<213> Homo sapiens


<400> 234
ggcacgagga gggtgaatgg ccctggcagg ctagcctgca gtgggatggg agtcatcgct       60
gtggagcaac cttaattaat gccacatggc ttgtgagtgc tgctcactgt tttacaacat      120
ataagaaccc tgccagatgg actgcttcct ttggagtaac aataaaacct tcgaaaatga      180
aacggggtct ccggagaata attgtccatg aaaaatacaa acacccatca catgactatg      240
atatttctct tgcagagctt tctagccctg ttccctacac aaatgcagta catagagttt      300
gtctccctga tgcatcctat gagtttcaac caggtgatgt gatgtttgtg acaggatttg      360
gagcactgaa aaatgatggt                                                  380


<210> 235
<211> 410
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (1)...(410)
<223> n = A,T,C or G


<400> 235
ggcacgagct gagcaggact tagaggaact ccggctacgt ttgctgtccc aacaaataga       60
ccagggttcc ctaagtgtcg cttcctccaa gaagccctcc ctgatgagtt gagccacttt      120
agtttgtgct caggctcacc ctgcacgtct tggttgctct catcactgta atgatctaaa      180
acacacgtct gctcatgaga cccgcatccc accccgatg ctgggccgc tcttggattt       240
tcatgcctgc tgccagcacc caggggagc tccggaaatg tctgctgggg gctcggaata      300
cccacctttc tggtaatgca gcccagcggg tcccagcctc gttntccagc cctcactcan      360
aatggagtcg ctctggttcg aacgcctctg acaagtgtgt acctacgtgt                 410


<210> 236
<211> 394
<212> DNA
<213> Homo sapiens


<400> 236
ggcacgagac tccggctacg tttgctgtcc caacaaatag accagggttc cctaagtgtc       60
gcttcctcca agaagccctc cctgatgagt tgagccactt tagtttgtgc tcaggctcac      120
cctgcacgtc ttggttgctc tcatcactgt aatgatctaa aacacacgtc tgctcatgag      180
acccgcatcc caccccgat gctgggccg ctcttggatt ttcatgcctg ctgccagcac       240
ccaggggag ctccggaaat gtctgctggg ggctcggaat acccacctttt ctggtaatgc      300
agcccagcgg gtcccagcct cgttttccag ccctcactca aaatggagtc gctctggttc      360
gaacgcctct gacaagtgtg tacctacgtg tcag                                  394


<210> 237
<211> 428
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
```

64

<222> (1)...(428)
<223> n = A,T,C or G

<400> 237
ttcggcacga nnnaagaaga ggccctcaga gatctgacag cctatgagtg cgtggacacc   60
acctcagccc actgagcagg agtcacagca cgaagaccaa gcgcaaagcg acccctgccc   120
tccatcctga ctgctcctcc taagagagat ggcaccggcc agagcaggat tctgccccct   180
tctgctgctt ctgctgctgg ggctgtgggt ggcagagatc ccagtcagtg ccaagcccaa   240
gggcatgacc tcatcacagt ggtttaaaat tcagcacatg cagcccagcc ctcaagcatg   300
caactcagcc atgaaaaaca ttaacaagca cacaaaacgg tgcaaagacc tcaacacctt   360
cctgcacgag cctttctcca gtgtggccgc cacctgccag accccaaaa tagcctgcaa   420
gaatggcc   428

<210> 238
<211> 432
<212> DNA
<213> Homo sapiens

<400> 238
tctcatggag gaacccatcc attcgaattc ggcacgagga tcaactggct atcatatctg   60
tttaatacat ttactggagc cagaaaccta ggccatcatc gaacgccagc ccttggtctg   120
agcctgcggc tgtagatgtg gaactcacag catatgcatt gttggcccag cttaccaagc   180
ccagcctgac tcacaaggag atagcgaagg ccactagcat ataggcttgg ttggccaagc   240
aacgcaatgc atatgggggc ttctcttcta ctcacgatac tgtagttgct gtacaagctc   300
ttgccaaata tgccactacc gcctacgtgc catctgagga gatcaacctg gttgtaaaat   360
ccactgagaa tttccagcgc acattcaaca tacagccagc taacagattg gtatttcagc   420
aggataccct gc   432

<210> 239
<211> 373
<212> DNA
<213> Homo sapiens

<400> 239
ggcacgaggc aggacctcct ctcccagatc gcccagctgc aggaggagaa caagcagctc   60
atgaccaacc tctcccacaa ggatgtcaac ttctcagagg aggagttcca gaagcatgaa   120
ggcatgtcag agcgggagcg acaggtgatg aacaagctga aggaggtggt ggacaaacaa   180
cgcgacgaga tccgcgccaa ggacagggag ctgggcctga aaaatgagga cgttgaggct   240
ttacagcagc agcagacacg gctgatgaag atcaaccatg accttcggca ccgggtcacg   300
gtggtggagg cccagggga agccctgatc gaacagaagg tggagctgga ggcagacctg   360
cagaccaagg agc   373

<210> 240
<211> 392
<212> DNA
<213> Homo sapiens

<400> 240
ggcacgagag ctgaccgaga tggacgtttt ctacatcgcg tcgcttgtgg gccacgagtt   60
cgagcgggtc attgaccagc acgggtgtta ggccatcgcg cgcctcatgc ccaaggtcgt   120
gcgcgtgctg gagatcttgg aggtgctggt cagtcgcctc cacgtcgcgc ccgagctgga   180
cgatctgcgc ctggagcagg acctcctctc ccagatcgcc cagctgctgg aggagaacaa   240
gcagctcatg accaacctct cccacaagga tgtcaacttc tcagaggagg agttccagaa   300
gcatgaaggc atgtcagagc gggagcgaca ggtgatgaag aagctgaagg aggtggtgga   360
caaacaacgc gacgagatcc gcgccaagga cg   392

<210> 241
<211> 434
<212> DNA
<213> Homo sapiens

65

<400> 241

```
gatcccatcc attcgaattc ggcacgagga ttgattcacc ttcacctgtg ctgcactcca      60
gctgacccaa gtaggaagcc ggacgagctg taaaacatga acggaagagt ggattatttg     120
gtcactgagg aagagatcaa tcttaccaga gggccctcag ggctgggctt caacatcgtc     180
ggtgggacag atcagcagta tgtctccaac gacagtggca tctacgtcag ccgcatcaaa     240
gaaaatgggg ctgcggccct ggatgggcgg ctccaggagg gtgataagat cctttcggta     300
aatggccaag acctaaagaa cctgctgcac caggatgctg tagacctctt tcgtaatgca     360
ggctatgctg tgtctctgag agtgcagcac aggttacagg tgcagaatgg acctatagga     420
catcgaggtg aagg                                                       434
```

<210> 242
<211> 385
<212> DNA
<213> Homo sapiens

<400> 242

```
ggcacgagga gagcgcggac acctcctcaa cccactgaac aggagtcaca gcacgatgac      60
cattcgcaaa gcgacccctg ccctccatcc tgactgctcc tcctaagaga gatggcaccg     120
gccaaaacag gattatgccc ccttctgctg cttctgctgc tgccgctgag tgtggcagag     180
atcccactca gtgccaaacc caagggcatg acctcatcac agtggtttag aattcagcac     240
atgcagccca gccctcaagc atgcaactca gccatgaaaa acattaacaa gcacacaaaa     300
cggtgcaaag acctcaacac cttcctgcac gagcctttct ccagtgtggc cgccacctgc     360
cagacccccca aaatagcctg caaga                                           385
```

<210> 243
<211> 388
<212> DNA
<213> Homo sapiens

<400> 243

```
ggcacgagag aaggcctgcg gcaaagagat gagcttattg acaaacatgg cttagttata      60
atccccgatg gcactcccaa tggtgatgtc agtcatgaac cagtggctgg agccatcact     120
ggtgcgtctc aggaagctgc tcaggtcttg gagtcaccag gagaagggcc attacatgtt     180
tggctacgaa aacttgctgg agagaaggaa gaactactgt cacagattac aaaactgaag     240
cttcagttag aggaggaacg acagaaatgc tccatgactg atggcacagt gggtgacctg     300
gcaggactgc agaatggctc agacttgcag gtcatcgaaa tgcagagaga tgccaataga     360
caaattagcg aatacaaatt taagcttg                                         388
```

<210> 244
<211> 388
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(388)
<223> n = A,T,C or G

<400> 244

```
ggcacgaggt cactgttgaa gagttcaatc ttaccagagg gccctcaggg ctgggcttca      60
acatcgccgg tgggacagat taccagtatg tctccaacga cagtggcatc tacgtcagcc     120
gcatcaaaga aaatgggggct gcggccctgg atgggcggct ccaggagggg gataagatcc     180
tttcggtaaa tggccaagac ctaaagaacc tgctgcacca ggatgctgaa cacctctttc     240
gtaatgcagg ctatgctgtg tctctgagag tgcagcacag gttacaggcg cagaatgtac     300
ctataggaca tcgaggtgaa ggggacccaa gcggattccc atatttattg tgctggtgcc     360
cgnggctggc ctctccctgg tattcgcg                                         388
```

<210> 245
<211> 390
```

<212> DNA
<213> Homo sapiens

<400> 245
ggcacgaggc tgtgtgtctc ttttctcacc ccagggcctg gccatgtccc ctttgggaag   60
cctgttccct tacccctaca cgtacatggc cgcagcggcg gccgcctcct ctgcggcagc   120
ctccagctcg gtgcaccgcc accccttcct caatctgaac accatgcgcc cgcggctgcg   180
ctacagcccc tactccatcc cggtgccggt cccggacggc agcagtctgc tcaccaccgc   240
cctgccctcc atggcggcgg ccgcgggggcc cctggacggc aaagtcgccg ccctggccgc   300
cagcccggcc tcggtggcag aggactcggg ctctgaactc aacagacgct cctccacgct   360
ctcctccagc tccatgtcct tgtcgcccag   390

<210> 246
<211> 397
<212> DNA
<213> Homo sapiens

<400> 246
ggcacgagac cactgggacc tcctgctcct cgccatcatc aacacagggc tgtctctgtt   60
tgggctgcct tggatccatg ccgcctaccc ccactccccg ctgcacgtgc gagccctggc   120
cttagtggag gagcgtgtgg agaacggaca catctatgac acgattgtga acgtgaagga   180
gacgcggctg acctcgctgg gcgccagcgt cctggtgggc ctgtccctgt tgctgctgcc   240
ggtcccgctt cagtggatcc ccaagcccgt gctctatggc ctcttcctct acatcgcgct   300
cacctccctc gatggcaacc agctcgtcca gcgcgtggcc ctggtggttc aggaaccaaa   360
ctggggaacc ccccgacaca ctacatcccg gagggggg   397

<210> 247
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 247
ttacggcgcg tttgttaggg gaccccaccg attcgaattc ggcacgagct cttttttattt   60
tcgctgatat ctttcttta ctaaatgcca ccatccttac ctgttcgggt gtctgcgtgc   120
ctaattttc ctggctgtta cacaagaacc cggattttag ttgaactctg gagcaaaaat   180
cctgcatcat ttgtaggtgg gtgtcattgt gactggctgc tacctcccca tgagtcttct   240
aaaataaaac ctgcaaattc acatcttccc catgcttcca gagaatgcat attcttcctt   300
tgaaaaaaga aaacnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnggat g   471

<210> 248
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G

<400> 248
ggcacgaggt acagacatct agttggcagg agccaaagat gttgccaaac atgtagtann   60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   120
nnnnnnnnga gtagaggatg cctggtatga ggcaatattt gggataggga agggaagctt   180

```
gggattttag ctacgtagag acacttgaaa attggaggga ggaaaggagt gggtggcttt      240
ggagatgttc tggaatatgt gaatgagggg agtggagggg ncctgnnngc tctgnggaag      300 ‑
gccangcccg gtttcctgtc tttcancctc ttccaggaaa attacgggca gaaagaggct      360
gagaaagtgg tcccgggaa ggcgctttat gaagagcttg gtg                        403
```

<210> 249
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(316)
<223> n = A,T,C or G

<400> 249
```
ccgcttaaag gcgccttctt ttaatgcaat cattttgaac atgtgcgaca gtcgagaata       60
ctaattggat caatcttgat atactctacc taaagacagt ctagaaacct ggggagaaa       120
gaactcacgg cacaaaacat tgggccgaga acggaattct ctgtaagcct agttgctgaa      180
acttcctgct gtaaccagaa gccagttta tctatcggct actgaaacac ccactgtgtg      240
ttgctcactc cctcactcac cgaacanaac ctgctacctc cgcatgaatc tactagtgcc      300
gataaactat atcaga                                                     316
```

<210> 250
<211> 419
<212> DNA
<213> Homo sapiens

<400> 250
```
ggcacgagat atcagtcaag ggctcttcaa gacacagcag aaacctcacc gggcctcggg       60
ctgcctccca ctgggtccca tggccaccac cttgaccttg gaaagctctg ttatatggaa      120
ggtagggagg acactatttc cctcaactac ttctagtaaa aagctcagtt ctctccccag      180
cagcaagagg gcacctgtga acacctgagt cacagcgcat tcctcctctg cttagaacat      240
tcgatggctc ccaccttact tgcagtaaat gctgaggtcc ttcctgtggc ccccgggggcc      300
ctgcatgatc tgatccatcc cttacctacc ctcatctctc cactggcctc cccacacttg      360
ctcccctccg dacactctgg actacttgct gctatctgaa cataccaggc ccctgcccc      419
```

<210> 251
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(434)
<223> n = A,T,C or G

<400> 251
```
ggcacgaggg ggcctccacc ggtgactcgg gcctggattc cacggccatg gcctctgccg       60
ctgcggcgca gggactgtcc ggggcgtccg cggacaccct gcccttccac ctccagcagc      120
acgtcctggc ctctcagggc ctggccatgt ccccctttcgg aagcctgttc ccttacccct      180
acacgtacat ggacgcagcg gcggccgcct cctctgcggc agcctccagc tcggtgcacc      240
gccacccctt cctcaatctg aacaccatgc gcccgcggct cgctacagc ccctactcca      300
tcccggtgcc ggtcccggac ggcagcagac tgctcaccac cgccctgccc tccatggcgg      360
cggccgcggn gcccctggac ggcaaagacg ccgccctggc cgccagcccg gcctcggagg      420
cagtggactc ggcg                                                        434
```

<210> 252
<211> 425
<212> DNA
```

<213> Homo sapiens

<400> 252
```
ggcacgagaa agcactcagc ctggggaatg aactctgcca caatgatgat ggctgtgacc   60
actccccgca gagagttctt gaagaggagc tcggcaggga ctggcaggcc aaggtggcct   120
ccttggagga ggtgcccttt gccgctgcct caattgggca ggtgcaccag ggcctgctga   180
gggacgggac ggaggtggcc gtgaagatcc aggtgagagg ggaggctggg cagggtaggg   240
gcggcaccc tgctagccca gagaagtgac tcccaccttc tctccctccc ttctcccttt   300
acagtacccc ggcatagccc agagcattca gagcgatgtc cagaacctgc tggcggtact   360
caagatgagc gcggccctgc ccgcgggcct gtttgccgag cagagcctgc aggccttgca   420
gcagg   425
```

<210> 253
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(395)
<223> n = A,T,C or G

<400> 253
```
ggcacgagca gacatctagt tggcaggagc caaagatgtt gccaaacatg tagtannnnn   60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   120
nnnnngagta gaggatgcct ggtatgaggc aatatttggg atagggaagg gaagcttggg   180
attttagcta cgtagagaca cttgaaaatt ggagggagga aaggagtggg tggctttgga   240
gatgttctgg aatatgtgaa tgaggggagt ggagggggtcc tggaggctct ggggaaggcc   300
aagcccgttt tcctgtcttt caacctcttc caggaaaatt acgggcagaa ggaggctgag   360
aaagtggccc gggtgaatgc gctatatgac gagct   395
```

<210> 254
<211> 307
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(307)
<223> n = A,T,C or G

<400> 254
```
agtcgtcttc ttttaatgta atcattttga acatgtgtga aagttgatca tacgaattgg   60
atcaatcttg aaatactcaa ccaaaagaca gtcgagaagc caggggggaga aagaactcag   120
ggcacaaaat attggtctga gaatggaatt ctctgtaagc ctagttgctg aaatttcctg   180
ctgtaaccag aagccagttt tatctaacgg ctactgaaac acccactgtg ttttgctcac   240
tccctcactc accgatcaaa acctgctacc tccccaagac tttactagtg ccgataaact   300
ttctcan   307
```

<210> 255
<211> 312
<212> DNA
<213> Homo sapiens

<400> 255
```
agtcgtcttc ttttaatgta atcattttga acatgtgtga aagttgatca tacgaattgg   60
atcaatcttg aaatactcaa ccaaaagaca gtcgagaagc caggggggaga aagaactcag   120
ggcacaaaat attggtctga gaatggaatt ctctgtaagc ctagttgctg aaatttcctg   180
ctgtaaccag aagccagttt tatctaacgg ctactgaaac acccactgtg ttttgctcac   240
tccctcactc accgatcaaa acctgctacc tccccaagac tttactagtg ccgataaact   300
```

ttctcaaaga gc                                                                    312

<210> 256
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(415)
<223> n = A,T,C or G

<400> 256
ggcacgagca ggagcagctg gcaagggaga aggacacggt gaagatgctg caggaacagc         60
tggaaaaggc agcgcgtgcc tggcgccaaa gcagggcggg aggagtcgag ctgccgggag        120
ccccgggggag gcaggaccgg .gagaggcaga gctgggcgga gtcgtcaagc tgctgggagc      180
gctgggctgg gagccccagg ggaggcagag ctgggcggag gtagtgggga cagagacttc        240
ctaacgaggg cttcagccca cccggcccac cacccaccct tctgggggttc ccttgctggg       300
aagcgagtgt ctgatccccc tgctggccca ggtcctcact ttgcacctgt gtgggcccct        360
tagccagtgc tccagccccct gccctgcagg atgatggttt ccccctcagct cccan          415

<210> 257
<211> 396
<212> DNA
<213> Homo sapiens

<400> 257
agaaagggtg agtgaggtgc tgtcctgggg ttctccaagt ttgagagcat ggatgcatgt         60
ggtttgaagc tgaagtgggc ctggggggaat gggttgaagg cagaagcaac cagtttggag        120
ggaaggcatt tggatatcca gccctttctc tgtggccttg ccctgggtc tgtcctgtta         180
cccccacccca tacctgtctg ctgcgcactc tgtgcttctg tagcattctc gcttctggcc       240
tttaaagttg gcaaggggag gttaataagc acctaggtgg ctgagtgtct ctgtcttctg        300
gcttgttcac aggacttcga gtaagaaggt gatttacagc cagcctagtg cccgaagtga        360
aggagaattc aaacagacct cgtcattcct ggtgtg                                  396

<210> 258
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

<400> 258
gnnggagggc ctgcggcaaa gagatgagct tattgagaaa catggcttag ttataatccc         60
cgatggcact cccaatggtg atgtcagtca tgaaccagtg ctggagcca tcactgttgt         120
gtctcaggaa gctgctcagg tcttggagtc agcaggagaa gggccattag atgtaaggct        180
acgaaaactt gctggagaga aggaagaact actgtcacag attagaaaac tgaagcttca        240
gttagaggag gaacgacaga aatgctccag gaatgatggc acagtgggtg acctggcagg        300
actgcagaat ggctcagact tgcagttcat cgaaatgcag agagatgcca atagacaaat        360
tagcgaatac aaatttaagc tttcaaaagc agaacaggat ataactacct tggagcaaag        420
tattagccgg c                                                             431

<210> 259
<211> 404
<212> DNA
<213> Homo sapiens

70

<220>
<221> misc_feature
<222> (1)...(404)
<223> n = A,T,C or G

<400> 259
ggcacgagca ggagcagctg caagggaga aggacacggt gaagaagctg caggaacagc        60
tggaaaaggc agcgcgtgcc tggcgccaaa gcagggcggg aggagtcgag ctgccgggag       120
ccccgggggag gcaggaccgg gagaggcaga gctgggcgga gtcgtcaagc tgctgggagc      180
gctgggctgg gagccccagg ggaggcagag ctgggcggag gtagtgggga cagagacttc       240
ctaacgaggg cttcagccca cccggcccac cacccaccct tctgggggttc ccttgctggg      300
aagcgagtgt ctgatccccc tgctggccca ggtcctcact ttgcacctgt gtgggcccct       360
tagccagtgc tccagcccct gccctgcagg atgatggttt cccn                        404

<210> 260
<211> 402
<212> DNA
<213> Homo sapiens

<400> 260
ggcacgagat ctccctgcct tgtgagcagc tggccggcgg ctctgggaca ggcggggatg        60
ggagggagtc taccgggcca ctgtagagct ggtagctggg agctggagct gtagagttcc       120
aggctgggag ctggagagcc ctgggtgaga gggaggccta taggggcccc ggggggacaca      180
ccaggcttga gggtagtagg tgctggaggc agagcctggc ctgtccaggg tgggacctca       240
cgacccaccc tgtccggccc ccagctcgga ggagcttcta cgtgtatgcg ggcatcctgg       300
cactgctcaa cctactgcag gggctgggga gtgagctgct gtgcttcgac atcatcgagg       360
ggctctggtg cgtggggggcc gcagggagtc tgcctcgtgg gg                         402

<210> 261
<211> 402
<212> DNA
<213> Homo sapiens

<400> 261
ggcacgagat ctccctgcct tgtgagcagc tggccggcgg ctctgggaca ggcggggatg        60
ggagggagtc taccgggcca ctgtagagct ggtagctggg agctggagct gtagagttcc       120
aggctgggag ctggagagcc ctgggtgaga gggaggccta gaggggcccc ggggggacaca      180
ccaggcttga gggtagtagg tgctggaggc agagcctggc ctgtccaggg tgggacctca       240
cgacccaccc tgtccggccc ccagctcgga ggagcttcta cgtgtatgcg ggcatcctgg       300
cactgctcaa cctactgcag gggctgggga gtgtgctgct gtgcttcgac atcatcgagg       360
ggctctggtg cgtggggggcc gcagggtgtc tgcctcgtgg gg                         402

<210> 262
<211> 151
<212> DNA
<213> Homo sapiens

<400> 262
gccgaatatg aagctacgtc cgggtatccg ggttccctgt aattgctttc tgatccctgg        60
tacttagatt tgattaccta tggaccacat tggtagaact actatatggg ggaacctcct       120
gattttgggc ggtctcaaaa acaaaaaaaa c                                       151

<210> 263
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(404)

<223> n = A,T,C or G

<400> 263

```
ggcacgaggg aacgtggaag gactagactg cctgagtctt ctgannnnnn nnnnnnnnnn      60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt     120
ggacctaccc cccgagtggt ttgccagggg ctctcaggcc ttcggctaca gactgagggc     180
tgcattatca gctttcctac ttttgaggtt ttgggacttt actggctttc ttgctcctca     240
acttgcagat ggcctgttgt gggacctcac cttgtgatca tgtacatgag ggaaatacac     300
acccctccca gggatgatgg aaggttaagg tcctaacacc tcctgcacat ctgagcagct     360
gcacattgaa ccagatagtc ctggaatgtg ggaaaacaga ggcn                      404
```

<210> 264
<211> 380
<212> DNA
<213> Homo sapiens

<400> 264

```
ggcacgaggg gaacgggaag ccgggaccca gaactcttgt ctttcaggat aaagtggcca      60
gggtgtacga agccccgggc tttttcctgg acctggagcc catcccggga gccttggacg     120
ctgtgcggga gatgaacgac ctaccggaca cgcaggtctt catctgcacc agccccctgc     180
tgaagtacca ccactgtgtg ggtgagaagt accgctgggt ggagcagcac ctggggcccc     240
agttcgtaga acgaattatc ctgacaaggg acaagacggt ggtcttgggg gacctgctca     300
ttgatgacaa ggacacagct cgaggccagg aggagacccc aagctgggag cacatcttgt     360
tcacctgctg ccacaatcgg                                                  380
```

<210> 265
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(440)
<223> n = A,T,C or G

<400> 265

```
ggcagaggcg tggacaccac ctcagcccac tgagcaggag tcacagcacg aagaccaagc      60
gcaaagcgac ccctgccctc catcctgact gctcctccta agagagatgg caccggccag     120
agcaggattc tgccccttc tgctgcttct gctgctgggg ctgtgggtgg cagagatccc     180
agtcagtgcc aagcccaagg gcatgacctc atcacagtgg tttaaaattc agcacatgca     240
gcccagccct caagcatgca actcagccat gaaaaacatt aacaagcaca caaaacggtg     300
caaagacctc aacaccttcc tgcacgagcc tttctccagt gtggccgcca cctgccagac     360
ccccaaaata gcctgcaaga atggcgataa aaactgccac caaagccacg gcccgtgtt     420
cctgaccatg tgaagctccn                                                  440
```

<210> 266
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(396)
<223> n = A,T,C or G

<400> 266

```
gcacgaggag gaacgtggaa ggactagact gcctgagtct tctgannnnn nnnnnnnnnn      60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnt     120
tggacctacc cccgagtgg tttgccaggg gctctcaggc cttcggctac agactgaggg     180
ctgcattatc agctttccta cttttgaggt tttgggactt tactggcttt cttgctcctc     240
```

```
aacttgcaga tggcctgttg tgggacctca ccttgtgatc atgtacatga gggaaataca      300
cacccctccc agggatgatg gaagggtaag gtcctaacac ctcctgcaca tctgagcagc      360
tgcacattga accagatagt cctggaatgt gggaac                                396


<210> 267
<211> 429
<212> DNA
<213> Homo sapiens


<400> 267
ggcacgagga tctgacagcc taggagtgcg tggacaccac ctcagcccac tgagcaggag       60
tcacagcacg aagaccaagc gcaaagcgac ccctgccctc catcctgact gctcctccta      120
agagagatgg caccggccag agcaggattc tgcccccttc tgctgcttct gctgctgggg      180
ctgtgggtgg cagagatccc agtcagtgcc aagcccaagg gcatgacctc atcacagtgg      240
tttaaaattc agcacatgca gcccagccct caagcatgca actcagccat gaaaaacatt      300
aacaagcaca caaaacggtg caaagacctc aacaccttcc tgcacgagcc tttctccagt      360
gtggccgcca cctgccagac ccccaaaata gcctgcaaga atggcgataa aaactgccac      420
cagagccac                                                             429


<210> 268
<211> 405
<212> DNA
<213> Homo sapiens


<400> 268
ggcacgaggc ggcttcctgg cccgcgagca gtaccgcgcc ctgcggcccg acctggcgga       60
taaagtggcc agtgtgtacg aagccccggg ctttttcctg acctggagc ccatcccggg      120
agccttggac gctgtgcggg agatgaacga cctaccggac acgcaggtct tcatctgcac      180
cagccccctg ctgaagtacc accactgtgt gggtgagaag taccgctggg tggagcagca      240
cctggggccc cagttcgtag aacgaattat cctgacaagg gacaagacgg tggtcttggg      300
ggacctgctc attgatgaca aggacacagt tcgaggccag gaggagaccc caagctggga      360
gcacatcttg ttcacctgct gccacaatcg gcacctggcc tgccc                     405


<210> 269
<211> 372
<212> DNA
<213> Homo sapiens


<400> 269
ggcacgagaa ccctgaggcc tggctatggt accaccgggt ggtaggtgcc cagcgctgcc       60
ccatcgtgga caccttctgg caaacagaga caggtggcca catgttgact ccccttcctg      120
gtgccacacc catgaaaccc ggttctgcta cttteccatt ctttggtgta gctcctgcaa      180
tcctgaatga gtccggggaa gagttggaag gcgaagctga aggttatctg gctgccagcg      240
ggaccaggat ggctattact ggatcactgg caggattgat gacatgctca atgtatctgg      300
acacctgctg agtacagcag aggtggagtc agcacttgtg gaacatgagg ctgttgcata      360
ggcacctgtg gg                                                          372


<210> 270
<211> 411
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (1)...(411)
<223> n = A,T,C or G


<400> 270
ggcacgagag ctctcggcgc acggcccagc ttccttcaaa atgtctactg ttcacgaaat       60
cctgtgcaag ctcagcttgg agggtgattg tccaggaagt tattccagat gaagacttat      120
```

```
acnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn n                 411
```

<210> 271
<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(302)
<223> n = A,T,C or G

<400> 271
```
ctgagtgtga cactcagaga gtgtgttata tagacagaga gagagcgcgc gcctctgtcc        60
ccccccttgt gtgtgcccca ctccagtgcg cccagatccg tgcccccccc cggagcgccg       120
tgctccctnn nnnnnnnnag tgtgcacacc cccctccccc tctcatgagt gcccacatat       180
atattcctgt gtgacccctc ccccccctg ccagtcagtg tccccgccgg agcgcgagtc       240
actgttttat tttttctcgc ccccaagaag ggatagcgat gtgtctctcc cctcctccca       300
ca                                                                      302
```

<210> 272
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

<400> 272
```
ggcacgagat gtggtacaga catctagttg gcaggagcca aagatgttgc caaacatgta        60
gtannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn       120
nnnnnnnnnn nnngagtaga ggatgcctgg tatgaggcaa tatttgggat agggaaggga       180
agcttgggat tttagctacg tagagacact tgaaaattgg agggaggaaa ggagtgggtg       240
gctttggaga tgttctggaa tatgtgaatg aggggaagtg gaggggcctg gaggctctgg       300
ggaaggccaa gcccgttttc ctgtctttca acctcttcca ggaaaattac gggcagaagg       360
aggctgagaa agtggcccgg gtgaaggcgc tatatgagga gctggaactg tcaacagtgg       420
tcttgcaaa                                                               429
```

<210> 273
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 273
```
tgttgtgcat ttggggcatcc caccgattcg aattcggcac gagaaagcat tgaagagacc        60
tcaaggcttt aagaaatgag taggccaaaa tctaagtcaa aggagaatct gtactggggc       120
ccccgtgcc ctgaggtcat tggccaagcc aagccgaacc tgagctttga tcctgatggt       180
ttggggagtg aggaagacag aagtggaagc ccagttctca ccccaagagg ggacacaaat       240
ggatgaccct ccatgatgc tgagacccca aaaggctaca cactcaagct aaaagccaga       300
```

```
ggaaatccca tcctgccacc cacaagactt caaggaaagt tgtttttggtg ctgagcagag      360
cagggggaaga aggaaaacag cccttaagga gctccagcca ctggccagcc ttcatgtgac      420
tctagcccaa attcattccc atcacctggg gtggaagggc cagaaatctc n              471


<210> 274
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(391)
<223> n = A,T,C or G

<400> 274
ggcacgaggt aaactctcta taagtgttca gtgttgacat agcctttgtg catagnnnnn       60
nnnnnnnnnn nnnnnnnnnn nnnnnntttt tttgccccac ctggaaaaaa ggggatgcnn      120
nnnnnnnggg ggggaaaaac aattcttaag ggccctttgg ccataaactt ttttccgggc      180
cacctttgtt acttttggtc ctggaagggg tttttttggg gggcccacgg ggaggggccc      240
cataggtaaa ctcggaaaac tttttctaac ccgggttagt gttttaaatt aaaaccaaaa      300
annnnnnnnn nnttggaatc cttttcttta aaaaaattaa tctctcaaag gaaaacaaag      360
nnnnnnnnnn nggggggccc ctttcgttta g                                    391


<210> 275
<211> 339
<212> DNA
<213> Homo sapiens

<400> 275
cactccgggg gctctatttg tgtgctctgc acccagtttt ttatacactc cacgctttgg       60
atataacatc tagcgccacg gtgcctatgt gtacacaccc tctctctata tatagatacc      120
tctgtgcgca catatagagg ggaaaagaga gatatatcta ttatatatac atttctacac      180
aactgtctct ggggggtcag agaacgcgcg cacccctctc ttttgagaga aggagactct      240
gtccccccctc tctggggcgc agggaggccc catggcatga agaaaaatac tcacttatat      300
ctctctctct cactctctgt ttgcgaaaaa acacacagg                            339


<210> 276
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(434)
<223> n = A,T,C or G

<400> 276
ccctagctac ttgctctttg tgcaggatgc catagattcg tgggctcctg ccttttctca       60
accccgaggt gcctgaccag ttctaccgcc tgtggctatc cctcttcctg cacgccggga      120
tcttgcactg cctggtgtcc atctgcttcc agatgactgt cctgcgggac ctggagaagc      180
tggcaggctg gcaccgcata gccatcatct acctgctgag tggtgtcacc ggcaacctgg      240
ccagtgccat cttcctgcca taccgagcag aggtgggtcc tgctggctcc cagttcggca      300
tcctggcctg cctcttcgtg gagctcttcc agagctggca gatcctggcg cggccctggc      360
gtgccttctt caagctgctg ctggggagg cttttctctt cacctttggg ctgctgccgt       420
ggattgacaa cttn                                                        434


<210> 277
<211> 378
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (1)...(378)
<223> n = A,T,C or G

<400> 277
ggcacgagaa aaagtaccgc tccagagcag gagcctaggc agccgagagg gtgcccgaac   60
ctgagtctga gttgcggcca cttcaggagc tgagaggagc aggatggaac tgcaggatcc   120
aaagatgaat ggagccctcc cttcggatgc tgtgggctac aggcaagaac gtgagggctt   180
cctgcccagt cgtggtcctg ctcctgggag caagccggtc cagttcatgg atttcgaggg   240
gaagacatcg tttggaatgt cagtgttcaa cctcagcaac gccatcatgg gcagcggcat   300
cctggggctg gcctatgcca tgggccacac ggggggtcatt ttctttctgg gcctgctgct   360
gngccatgcg cttctgcc   378

<210> 278
<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(302)
<223> n = A,T,C or G

<400> 278
cccccnctct cgccnnnnnn nnnnncgttt tcactcccgg gagtcccctt gtttttggcc   60
cggatccggg ttctttcttt cccgtggtgc cgcgggttgg agtgtttttat cttttcttca   120
catgggggggc tggggagttc cccagaaccc caggggggaa accccccctcc tatgaaaatg   180
acacatgagc ccctccttcc ggtggcgggg acctgtctct ctaagaccct tttctgggaa   240
aggggtcttt gtttgtatga ccccaccgac gcgggggggct ttctatgggc cgcccccccc   300
cg   302

<210> 279
<211> 405
<212> DNA
<213> Homo sapiens

<400> 279
ggcacgaggc ctcattggag acattgacaa tgccatgagg accttcctca actactacac   60
tgtatggaag cagtttgggg ggctcccgga attctacaac attcctcagg gatacacagc   120
ggagaagcga gagggctacc cacttcggcc agaacttatt gaaagcgcaa tgtacctcta   180
ccgtgccacg ggggatccca ccctcctaga actcggaaga gatgctgtgg aatccattga   240
aaaaatcacc aaggtggagt gcggatttgc aacaatcaaa gatctgcgag accacacgct   300
ggacaaccgc atggagtcgt tcttcctggc cgagactgtg aaatacctct acctcctgtt   360
tgacccaacc aacttcatcc acaacaatgg gtgcaccttc gacgc   405

<210> 280
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(415)
<223> n = A,T,C or G

<400> 280
ggcacgaggg tcacctgtgc tgcccctcct taatctcgta tgatggtcac agtccggtgg   60
ccgtgggggt gctctgcctt ccctggtccc cactgcccat atctgtggac tgccccttcc   120

```
aaagacccct gggggggggtt ggananattc aatcttacca aactcaacga tccatccatt      180
tcatgttact gatattacat gcggacaccc ctggatcata ttattcaaat ccagtcatct      240
attctgcatt catgaccttt tgataactcc atcatgacct acttgacggt cactgaccat      300
gcttactgga ttccgccttg taacaataaa atctatttaa actnnnnnnn nnnnnnnnnn      360
nnnaccagcc cacataaaat atgattgaat caatttctta taccttcact agaat          415
```

<210> 281
<211> 389
<212> DNA
<213> Homo sapiens

<400> 281
```
ggcacgaggt agactggggg ctcactgatt gcattgacac ttttcatcat gggtccccgg       60
gggctcacgt ggagtctgac acatgaatac atggctatca tgtctgtcac cttcaatggg      120
gaaaacaaac tttgtaatgg taggaaacac aacaggtaca ataatttaca aaaatatgtt      180
tgccacattt cagggcaagg caaaatgcag aggagacata tgttaaaatc ttatcattca      240
catttgttct ttttatcttt aagatgaagc tcttacacca agtgtcacga gtctggagaa      300
cagatgggtt gaagagctgt tcttataaaa taagatctgg ggaacacaat cctttatata      360
tcaacatcac agtggatttt tggattggg                                       389
```

<210> 282
<211> 371
<212> DNA
<213> Homo sapiens

<400> 282
```
ggcacgagat agaatccgag gcattgatat cattaaatgg atggagcgct accttaggga       60
taagaccgtg atgataatcg tagcaatcag ccccaaatac aaacaggacg tggaaggcgc      120
tgagtcgcag ctggacgagg atgagcatgg cttacatact aagtacattc atcgaatgat      180
gcagattgag ttcataaaac aaggaagcat gaatttcaga ttcatccctg tgctcttccc      240
aaatgctaag aaggagcatg tgcccacctg gcttcagaac actcatgtct acagctggcc      300
caagaataaa aaaaacatcc tgctgcggct gctgagagag gaagagtatg tggctcctcc      360
acggggggcct c                                                         371
```

<210> 283
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

<400> 283
```
ggcacgaggt gggagacacc acttgtcttt atgtgggtct caaagatgat gtagaatttc       60
ctttaatttc tcgcagtctt cctggaaaat attttccttt gagcagcaaa tcttgtaggg      120
atatcagtga aggtctctcc ctccctcctc tcctgnnnnn nnnnnnnngga aacaaagttt      180
tgcttttgtt ccccagcctg aaggggaagg gctcaatttt ggttaaccaa aaccttggcc      240
tccgggggtta aagcaattct ccggcctaac cctttggaga acctgggtta ataggcgcag      300
gcccccaggc cgggttaatt ttgggttttta agaaaaaaca gggtttctca atgtggggca      360
ggcgtggcca aaaccccac cctaaggggga tcggccctcc ttggcctccc aan            413
```

<210> 284
<211> 409
<212> DNA
<213> Homo sapiens

<400> 284
```
ggcacgaggc ctggggatgc tccctgctaa gtgggcctgc tcccaccctt gccataaagc       60
```

```
tctgaggcag cctgagcctg ccgtgggggc cccactgtga ccctgccgca gtcttcctgg        120
gtccctgcgt cctcttaagg ggcagtgaca cctgcctcgc tggccctgtg tgggtggcag        180
gccccactgt ttgggatatc acatggccag gcacgtggtg agcctgctca gggcggacgc        240
ctgcaggcgc gtgctcggtc acacactgcc ttgtgtggcc ctcctgtccg gtgcagcctg        300
gacctggacg cctggatcaa tgagccactc tcggacagcg agtcagagga cgagaggccc        360
agggccgtct ccacgaggga ggagcagcgg cgtcccaagc accggccgt                    409
```

```
<210> 285
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(404)
<223> n = A,T,C or G

<400> 285
ggcacgagcc acttcacccc cttggggggct gcttattcac tctggggatt cgccatggac        60
acgtctcaac tgcgcaagct gctgcccatg tttccctgcc cctccagatt gcctggagat        120
ctattttgtt tccttttgtg tttcttttttc tgttttgagt gtctttcttt gcaggtttct       180
gtagccggaa gatctccgtt ccgctcccag cggctccagt gtaaattccc cttcccccctg       240
gggaaatgca ctaccttgtt ttgggggggtt taggggtgtt tttgtttttc agnngntttg       300
nttttttggn nnnnnnnnnn gntttgactt ttttnncttt tattttggag ggtaatggaa        360
agaataggaa aatcaggcag ggggagaat ggttgtttat tctt                          404
```

```
<210> 286
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(441)
<223> n = A,T,C or G

<400> 286
ggcacgaggg aagcgggtgg tgtgtgtccc ctgtttactt ttagctgagc tggggttggg        60
tgtacgggtt ctgttcctct gagccctgcg gcccacctga tgtttacgtg tgtgtgtgag        120
gggggggcggc gctncncnnn caccccccan nggcctctat ccttgtgaag ctctcctcaa       180
tctaatactt attgcccctg actccaaatc ttccacctttt tgcctcttat tatatctatg      240
ttcattacct taggtcagct gttctctatt atgacactga ttcatacttt tgttttttga        300
taagtactta tttcctctct cattgttgct aatatcctct tccttttttc ctttgtctac       360
tctcacttca tctataaaac tcttacatat ctctccacta atttctttga actaacaatt       420
tttatataga atttaagcct g                                                   441
```

```
<210> 287
<211> 387
<212> DNA
<213> Homo sapiens

<400> 287
ggcacgagca gccctggaat tccgcaagca cccggaggcc ggggggtctc cgcgggcgtc        60
ccatgcggag gacatggtgc gccgtgtact cttccccacg acctcaggga ccggtccccc        120
cgccggaact gcttcctacc tggtccggtc ccggcagctg aatctggcca gcccaacctc        180
ccggtcgcta tggcacccac aggcctaaca ttcgcgagtc caccttccgc cgtccgcgag        240
gaaaacctga ttggcgccct cttggcgatc ttcgggcacc tcgtggtcag cattgcactt        300
aacctccaga agtactgcca catccgcctg gcaggctcca aagatccccg ggccttatt        360
aaagaccaaa actggtggct tgggcct                                            387
```

78

```
<210> 288
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

<400> 288
ggcacgaggg aggctggaag cgggtggtgt gtgtcccctg tttactttta gctgagctgg      60
ggttgggtgt acgggttctg ttcctctgag ccctgcggcc cacctgatgt ttacgtgtgt     120
gtgtgagggg gggcggcggn nncannnnnn nnnnnnngan tcttttttcca ataacaatat     180
taattaatcc aatctttttt cttcttctct tctttctact cttttttcctc cttttttttt     240
atttactttt actcatcctc ctttcttcat ttactctgtc ttttgtatta ctagcttctt     300
ctctttcgca attttccttt attgttgtca ctcttttggg aataacgtac tcttatgaga     360
agttgtttcc tctttatttta catttggttg tcttctcctt tcataatttta ttttacgtat     420
gtttgtggag ttttttcctt                                                  439

<210> 289
<211> 170
<212> DNA
<213> Homo sapiens

<400> 289
atgagtggtc ttttaattag gaacaaatct aatggaaagg agagttgact gaagttggcc      60
cacaggattg tgagctgggc agagccttca tgaaggcttg ccaccttggg acgcccaatt     120
taatgggggg gcctgctgta aggcaaaagg cttttttggca aattgctggg                170

<210> 290
<211> 393
<212> DNA
<213> Homo sapiens

<400> 290
ggcacgaggt agactggggg ctcactgagt gcagtgacac ttttcatcat gggtccccgg      60
gttctcacgt ggagtctgac acatgaatac atggctatca tgtctgtcac cttcaatggg     120
gaaaacaaac tttgtaatgg taggaaacac aacaggtaca ataatttaca aaaatatgtt     180
tgccacattt cagggcaagg caaaatgcag tggagacata tgttaaattc ttatcattca     240
catttgatct ttttatcttt aggatgaagc tcttacacca agtgtcacga gtctggagaa     300
cagatggggt gagtagttgt tcttataaat tagtatctgt ggaacacaat cctttatata     360
tcaacatcac agtggatttc tggcttggtg cat                                   393

<210> 291
<211> 430
<212> DNA
<213> Homo sapiens

<400> 291
ggcacgaggg atagaatccg aggcattgat atcattaaat ggatggagcg ctaccttagg      60
gataagaccg tgatgataat cgtagcaatc agccccaaat acaaacagga cgtggaaggc     120
gctgagtcgc agctggacga ggatgagcat ggcttacata ctaagtacat tcatcgaatg     180
atgcagattg agttcataaa acaaggaagc atgaatttca gattcatccc tgtgctcttc     240
ccaaatgcta agaaggagca tgtgcccacc tggcttcaga acactcatgt ctacagctgg     300
cccaagaata aaaaaaacat cctgctgcgg ctgctgagaa aagaaaaaga tgtggctcct     360
tcacgggggc ctcttgccac ccttcaagtg ggtcccttgt gacaccgtc aatcccagat      420
cactgaggcc                                                             430

<210> 292
```

<211> 423
<212> DNA
<213> Homo sapiens

<400> 292
atcccatcga ttcgaattcg gcacgaggga agcaagggca cccgccttat ggatggaatt   60
gaggggaagg cacccggggc tcctgcatcg agcttccctc ctatattcaa tgaggaaatg   120
accctgcaga aggctggctg cagatgcccc tgcctcccgg ctttgcctgc ttggagtttg   180
atggacacgt ggtcctgtca gggctacagc aggtctatgg tctttggtaa cggaaagcgc   240
tggtgaaaca gtgagctttc ccgtgggtgc ttttccctga cgccaacaac cagggcaagc   300
tgcctgtcct gctgcttggc cgctcctcag agctgcggcc gggagagttc gtggtcgcca   360
tcggaagccc gttttccctt caaaacacag tcaccaccgg gatcgtgagc accacccagc   420
gag   423

<210> 293
<211> 409
<212> DNA
<213> Homo sapiens

<400> 293
ggcacgaggc taggagtact ggcctagatg gttatagaag tccatgccag gaggtcgtct   60
gcagtcagag ggtggttctg ggctggactc cagccccttc ctgtcggagg ccaatgccga   120
gcggattgtg cagaccttat gtacagttcg aggggccgcc ctcaaggttg ccagatgct   180
cagcatccag gacaacagct tcatcagccc tcagctgcag cgcatctttg agcgggtccg   240
ccagagcgcc gacttcatgc cccgctggca gatgctgaga gttcttgaag aggagctcgg   300
cagggactgg caggccaagg tggcctcctt ggaggaggtg ccctttgccg ctgcctcaat   360
tgggcaggtg caccagggcc tgctgaggga cgggacggat gtgggcgtg   409

<210> 294
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(369)
<223> n = A,T,C or G

<400> 294
ggcacgaggc cagctgctgg tggagcggca ctggggactg gaggctggaa gcgggtggtg   60
tgtgtcccct gtttactttt agctgagctg gggttgggtg tacgggttct gttcctctga   120
gccctgcggc ccacctgatg tttacgtgtg tgtgtgaggg ggggcgggngn nnnnnnnnnn   180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna   240
nnnnnnnnnn ntnaatatat tttttgttt aatgggtnnn nnnnnnnnnn nnnnnnnnnn   300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnataaatt   360
attaaattt   369

<210> 295
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G

<400> 295
ggcacgagtg cttctctagc tctctaggcc tctccagttt gcacctgtcc ccaccctcca   60
ctcagctgtc ctgcagcaaa cactccaccc tccaccttcc attttccccc actactgcag   120

```
cacctccagg cctgttgcta tagagcctac ctgtatgtca ataaacaaca gctgaagcnn      180
nnnnnnnnnn nnnnccccg ccccttaaaa acaatggggg gccgtttacc gaaaacccaa        240
actggaaaaa acccttggtg gagttggacc accccccacc taaagggcgg ggaaaaaaag      300
gctttattgg aaaaattggg gaggctttgg tttaattgga acccataaaa gccggcaaaa      360
aacaggtaac caccaccatt ggctttcttt ttaggttcag ggg                        403
```

```
<210> 296
<211> 384
<212> DNA
<213> Homo sapiens
```

```
<400> 296
ggcacgagga gaacttctgg atcgggccca gctcggaggc cctcatccac ctgggcgcca       60
agttttcgcc ctgcatgcgc caggacccgc aggtgcacag cttcattcgc tcggcgcgcg      120
agcgcgagaa gcactccgcc tgctgcgtgc gcaacgacag gtcgggctgc gtgcagacct      180
cggaggagga gtgctcgcta acaggaatta tgccgtcaaa ctcctttcca cgctggcagt      240
gtgggtgaag tggcccatcc atcccagcgc cccagagctt gcgggccaca agagacagtt      300
tggctctgtc tgccaccagg atcccagggt gtgtgatgag ccctcctccg aagaccctca      360
tgagtggcca gaagacatca ccaa                                             384
```

```
<210> 297
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<400> 297
ggcacgagat taagtgaatt gcgttatatt tatgacctta aggaccagat acaggaggta       60
gaagggagat acatgcaggg gcttaaagaa ctaaaggaat ctttgtctga agtggaagaa      120
aaatacaaga aagccatggt ttccaatgca cagttagaca atgagaagaa caatttgatc      180
taccatgtag acacactcaa ggatgttatt gaagagcagg aggaacagat ggcagaattt      240
tatagagaaa atgaagaaaa atcaaaggag ttagaaaggc agaaacatat gtgtagtgtg      300
ctgcagcata agatggaaga acttaaagaa ggcctgcggc aaagagatga gcttattgag      360
aaacatggct taagtataat ccccgatggc actcccaatg g                         401
```

```
<210> 298
<211> 430
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(430)
<223> n = A,T,C or G
```

```
<400> 298
aaatgggaga actctgaggt ncccaacgat tcgcattcgg cacgaggcca gctgctgggg       60
gagcggctct ggggactgga ggctggaagc gggtggtgtg tgtcccctgt ttacttttag      120
ctgagctggg gttgggtgta cgggttctgt tcctctgagc cctgcggccc acctgatgtt      180
tacgtgtgtg tgtgagggg ggcgggnnac gntatanacc catcttatta tcaaattaca      240
aaatcccant aataggtatc tccatcaagc tgcangagga ggagagagaa atgagagaca      300
attatgttcc tgtggtctca gccttggatc aggagattat tgaagatgat tcttgcccta      360
aggagatgct gaagcttttg gactttgggg gtctgttcaa ccttcatggt acttcaactt      420
cagctgggaa                                                             430
```

```
<210> 299
<211> 387
<212> DNA
<213> Homo sapiens
```

```
<400> 299
```

```
ggcacgaggt ttcatacctt ctcagaattg gtatatcaag acacatttaa atataagccc          60
tctggaaatg gatttatata cagtcatcat aattaccccc ttagaaattg gtaatatttt         120
atagccaggt ttaggtttag tgtcaagtat agtgattgct ggtctatcac tactcatgaa         180
gtggaacccc ctctactcat aaaaacccca atcagacata tagatgaata gaaccttgat         240
aacattagaa tgccttgttc tctgaaggct tacaagacta tacgtcagga tatattaagg         300
agaagctgag gaacgaaaga aacttcgaca agagaatgga aatgtacatg ctatagcata         360
actgaagaat aaaatacagg tttgagg                                             387

<210> 300
<211> 373
<212> DNA
<213> Homo sapiens

<400> 300
ggcacgagac tagtccgact ttttatgtgc tatgcaaaat agacatcttt aacatagtcc          60
tgttactatg gtaacacttt gctttctgaa ttggaaggga aaaaaatgta acgacagcat         120
tttaaggttg ccatggtaac cagccacagt acatatgtaa ttctttccat caccccaacc         180
tctcctttct gtgcattcat gcaagagttt cttgtaagcc atcagaagtt acttttagga         240
tggggggagag gggcgagaag gggaaaaatg ggaaatagtc tgattttaat gaaatcaaat         300
gtatgtatca tcagttggct acgttttggt tctatgctaa actgtgaaaa atcagatgaa         360
ttgataaaag agt                                                            373

<210> 301
<211> 369
<212> DNA
<213> Homo sapiens

<400> 301
ggcacgagac tagtccgact ttttatgtgc tatgcaaaat agacatcttt aacatagtcc          60
tgttactatg gtaacacttt gctttctgaa ttggaaggga aaaaaatgta gcgacagcat         120
tttaaggttg ccatggtaac cagccacagt acatatgtaa ttctttccat caccccaacc         180
tctcctttct gtgcattcat gcaagagttt cttgtaagcc atcagaagtt acttttagga         240
tggggggagag gggcgagaag gggaaaaatg ggaaatagtc tgattttaat gaaatcaaat         300
gtatgtatca tcagttggct acgttttggt tctatgctaa actgtgaaaa atcagatgaa         360
ttgataaaa                                                                 369

<210> 302
<211> 399
<212> DNA
<213> Homo sapiens

<400> 302
ggcacgaggc agcagacacg gctgatgatg atcaaccatg accttcggca ccgggtcacg          60
gtggtggagg cccagggaa  agccctgatc gaacagaagg tggagctgga ggcagacctg         120
cagaccaagg agcaggagat gggcagcctg cgagcagagc tggggaagtt gcgagagagg         180
ctgcagggg  agcacagcca gaatggggag gaggagcctg agacggagcc ggtgggagag         240
gagagcatct ccgacgcaga gaaggtggcc atggatctca aggaccccaa ccgcccccgg         300
ttcaccctgc aggagctgcg ggacgtgctg cacgagagga acagctcaa  gtccaaggtg         360
ttcttgctgc aggaggagct ggcttactat aagagtgag                               399

<210> 303
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(391)
<223> n = A,T,C or G
```

82

<400> 303

```
ggcacgagca cagcccctga ctgccgcagc ccccacagag cccgccgcgc accccacgtc       60
ccccacgcca gcgcccagcc atggaggcca tcaagnnnnn nnnnnnnnnn nnnnnnnngg      120
acaaggagaa tgccatcgac cgcgcggagc aggcggaggc ggataagaaa gccgctgagg      180
acaagtgcaa gcaggtggag gaggagctga cgcacctcca gaagaaacta aaagggacag      240
aggacgagct ggataaatat tccgaggacc tgaaggacgc gcaggagaag ctggagctca      300
cggagaagaa ggcctccgac gctgaaggtg atgtggccgc cctcaaccga cgcatccagc      360
tcgttgagga ggagttggac agggctcang a                                   391
```

<210> 304
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(418)
<223> n = A,T,C or G

<400> 304

```
ggcacgagtg ccgcagcccc cacagagccc gccgcgcacc ccacgtcccc cacgccagcg       60
cccagccatg gaggccatca agnnnnnnnn nnnnnnnnnn nnnnggaca aggagaatgc      120
catcgaccgc gcggagcagg cggaggcgga taagaaagcc gctgaggaca agtgcaagca      180
ggtggaggag gagctgacgc acctccagaa gaaactaaaa gggacagagg acgagctgga      240
taaatattcc gaggacctga aggacgcgca ggagaagctg gagctcacgg agaagaaggc      300
ctccgacgct gaaggtgatg tggccgccct caaccgacgc atccagctcg ttgaggagga      360
gttggacagg gctcangaac gactggccac ggccctgcag aagctggagg aggcagaa      418
```

<210> 305
<211> 420
<212> DNA
<213> Homo sapiens

<400> 305

```
ggcacgagga tttcggcaac aatttacaca gctggctgga ccagacatgg aggtgggtgc       60
cactgatctg atgaatattc tcaacaaagt cctttctaag cacaaagatc ttaagactga      120
cggtttttagt cttgacacct gccggagcat tgtgtctgtc atggacagtg acacgactgg      180
taagctgggc tttgaagaat ttaagtatct gtggaacaac atcaagaaat ggcagtgtgt      240
ttataagcag tatgacaggg accattctgg gtctctggga agttctcagc tgcggggagc      300
tctgcaggcc gcaggcttcc agctaaatga acaactttac caaatgattg tccgccggta      360
tgctaatgaa gatggagata tggatttttaa caatttcatc agctgcttgg tccgcctgga      420
```

<210> 306
<211> 399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G

<400> 306

```
ggcacgagcc acgtcccca cgccagcgcc cagccatgga ggccatcaag nnnnnnnnnn       60
nnnnnnnnnn nnnggacaag gagaatgcca tcgaccgcgc ggagcaggcg gaggcggata      120
agaaagccgc tgaggacaag tgcaagcagg tggaggagga gctgacgcac tccagaaga      180
aactaaaagg gacagaggac gagctggata aatattccga ggacctgaag gacgcgcagg      240
agaagctgga gctcacggag aagaaggcct ccgacgctga aggtgatgtg gccgccctca      300
accgacgcat ccagctcgtt gaggaggagt tggacagggc tcaggaacga ctggccacgg      360
ccctgcagaa gctggaggag gcagaanaag ctgcagatg                           399
```

<210> 307
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(438)
<223> n = A,T,C or G

<400> 307
atcccatcga ttcgaattcg gcacgagccc ccacagagcc cgccgtgcac cccacgtccc   60
ccacgccagc gcccagccat ggaggccatc aagnnnnnnn nnnnnnnnnn nnnnnnggac   120
aaggagaatg ccatcgaccg cgcggagcag gcggaggcgg ataagaaagc cgctgaggac   180
aagtgcaagc aggtggagga ggagctgacg cacctccaga agaaactaaa agggacagag   240
gacgagctgg ataaatattc cgaggacctg aaggacgcgc aggagaagct ggagctcacg   300
gagaagaagg cctccgacgc tgaaggtgat gtgggccgccc tcaaccgacg catccagctc   360
gttgaggagg agttggacag ggctcatgaa cgactgggca cggacctgca gaagctggag   420
gagggcagaa aaagctgc   438

<210> 308
<211> 419
<212> DNA
<213> Homo sapiens

<400> 308
ggcacgagct ttggcctgcc cgctcctctc ctttctggcg acccgactct ggctacgcaa   60
cggggcccgc gtcaatgcct gggcctactg ccacgtgcta cccactgggg acctgctgct   120
ggtgggcacc caacagctgg gggagttcca gtgctggtca ctagaggagg gcttccagca   180
gctggtagcc agctactgcc cacaggtggt ggaggacggc gtggcagacc aaacagatga   240
gggtggcagt gtacccgtca ttatcagcac atcgcgtgtg agtgcaccac ctggtggcaa   300
ggccagctgg ggtgcagaca ggtcctactg gaaggagttc ctggtgatgt gcacgctctt   360
tgtgctggcc gtgctgctcc cagtttttatt cttgctctac cggcaccgga acagcatgg   419

<210> 309
<211> 415
<212> DNA
<213> Homo sapiens

<400> 309
ggcacgaggc tgagccagag acgccctcca ttctctcttc gcgcccgctc tccggctggc   60
ctcccgatgc gctgcccgcc ctgccaccat gacggaacag gccatctcct tcgacaaaga   120
cttcttggcc ggaggcatcg tcgccgtcat cttcaagacg gacgtggctc ctatcgagcg   180
ggtcaagctg ctgctgccgt ccagcacgcc agcaagcaga tcgccgccga ctagcagtac   240
aagggcatcg tggactgcat tgtccgcatc cccaaagagc atggagtgct gtccttctgg   300
aagggcaacc ttgccaacgt caatcgctac ttccccactc aagccctcaa cttcgtcttc   360
aaggataatg acatgcagat cttactgggg ggcgtggaca aacacacgca ggtct   415

<210> 310
<211> 396
<212> DNA
<213> Homo sapiens

<400> 310
ggcacgagcg ggtcctgccg gtgccacatg gggtaccagg gcccgctgtg cactgactgc   60
atggacggct acttcagctc gctccggaac gagacccaca gcatctgcac agcctgtgac   120
gagtcctgca agacgtgctc gggcctgacc aacagagact gcggcgagtg tgaagtgggc   180
tgggtgctgg acgagggcgc ctgtgtggat gtggacgagt gtgcggccga gccgcctccc   240
tgcagcgctg cgcagttctg taagaacgcc aacggctcct acacgtgcga agagtgtgac   300

tccagctgtg tgggctgcac aggggaaggc ccaggaaact gtaaagagtg tatctctggc   360
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<210> 311
<211> 394
<212> DNA
<213> Homo sapiens

<400> 311
ggcacgaggc ctctgggccc tacagctcat cctggtcacg tgcccctcac tgctcgtggt   60
catgcacgtg gcctaccgcg aggaacgcga gcgcaagcac cacctgaaac acgggcccaa   120
tgccccgtcc ctgtacgaca acctgagcaa gaagcggggc ggactgtggt ggacgtactt   180
gctgagcctc atcttcaagg ccgccgtgga tgctggcttc ctctatatct tccaccgcct   240
ctacaaggat tatgacatgc cccgcgtggt ggcctgctcc gtggagcctt gcccccacac   300
tgtggactgt tacatctccc ggcccacgga gaagaaggtc ttcacctact tcatggtgac   360
cacagctgca tggagatctt cggcccccagg cacc   394

<210> 312
<211> 384
<212> DNA
<213> Homo sapiens

<400> 312
ggcacgaggc gaggaacgcg agcgcaagca ccacctgaaa cacgggccca atgccccgtc   60
cctgtacgac aacctgagca agaagcgggg cggactgtgg tggacgtact tgctgagcct   120
catcttcaag gccgccgtgg atgctggctt cctctatatc ttccaccgcc tctacaagga   180
ttatgacatg ccccgcgtgg tggcctgctc cgtggagcct tgcccccaca ctgtggactg   240
ttacatctcc cggcccacgg agaagaaggt cttcacctac ttcatggtga ccacagctgc   300
catctgcatc ctgctcaacc tcagtgaagt cttctacctg gtgggcaaga ggtgcatgga   360
gatcttcggc cccaggcacc ggcg   384

<210> 313
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(430)
<223> n = A,T,C or G

<400> 313
ggcacgagcc ggctcgtaag caacctcttc agtctgcagt gggacccgcg cgtcatgcag   60
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gcgggcttgg tgcacggcta ccgggtagca ggcatgtggg acaagtataa cgagccgctg   180
ttgcagtcag tgtgcgtgtt ccgcgagcgg accgcgcggc gcgtcctgga gctgcaccgc   240
ggacaggacg ccgcggcccg gctgctgcgc ctctaccggc gccacgagcc tcgcttcccc   300
gagctggccg cccttgcaga cccccacgct cagctgctac agcgccgcct cgacttcctc   360
gccaagcaca ttttgcactg taaggccaag tacggccgcc ggtctgggac ttagtgtcac   420
cgggaggaan   430

<210> 314
<211> 408
<212> DNA
<213> Homo sapiens

<400> 314
ggcacgagag cagaaggact ttgtctgcaa caccaagcag cccggctgcc ccaacgtctg   60
ctatgacgag ttcttccccg tgtcccacgt gcgcctctgg ccctacagc tcatcctggt   120
cacgtgcccc tcactgctcg tggtcatgca cgtggcctac cgcgaggaac gcgagcgcaa   180

85

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gcaccacctg aaacacgggc ccaatgcccc gtccctgtac gacaacctga gcaagaagcg      240
gggcggactg tggtggacgt acttgctgag cctcatcttc aaggccgccg tggatgctgg      300
cttcctctat atcttccacc gcctctacaa ggattatgac atgccccgcg tggtggcctg      360
ctccgtggag ccttgccccc acactgtgga ctgttacatc tcccggcc                   408
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<210> 315
<211> 412
<212> DNA
<213> homo sapiens

<400> 315
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tcggagccca tgcgcagcgg ggcgcgttag ctcgcgctct tcctgacccc cgatcctggg       60
gccgaggtac ctttgacagg agcgtgaccc tgctggaggt gtgcgggagc tggcctgagg      120
gcttcgggct gcggcacatg tcctccatgg agcacacgga ggagggcctc cgggagcgac      180
ttgccgacgc catggccgag tcacctagcc gggacgtcgt gggatccgga acagaacttc      240
agcgagaggg aagcatcgag actctgagta acagctcagg ctccaccagc ggcagcatac      300
caagaaactt tgatggctac cgatctccgc tgcccaccaa tgagagccag cccctcagcc      360
tcttcccgac tggcttcccg taggtaccag caacctgctt ctgactggcc ag             412
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<210> 316
<211> 300
<212> DNA
<213> homo sapiens

<400> 316
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gccagcccct cagcctcttc ccgactggct tcccgtaggt accagcaacc tgcttctgac       60
tggccagccc cctcccctgc tggaggaggg gagaagcccc gctctggtcc tacccttcag      120
tctctgctct tccttcatca accacctccc caagcttag tgacagcagc cgcccatcct       180
acctggatgg agaagagacc cttctccaag cacctcagcg cacttgccct ctgccacacc      240
tgtcggtgga ggctgtggcc aggagagact gtagaagctc ggtccctgtg tatgtttgca      300
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<210> 317
<211> 2064
<212> DNA
<213> homo sapiens

<400> 317
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ctcgtggtgc gccgttttt aagccggtct gaaaagcgca atattcgggt gggagtgacc      120
cgattttcca ggctgctatc catgtccagg gccaaacatg aatcctattg ctcttgggga      180
gccgctggct tgcttatgca gaaaacaagt tgattcgatg tcatcagtcc cgtggtggag      240
cctgtggaga caacattcag tcttatactg ccacagtcat tagtgctgct aaaacattga      300
aaagtggcct gacaatggta gggaaagtgg tgactcagct gacaggcaca ctgccttcag      360
gtgtgacaga agatgatgtt gccatccaca gtaattcacg gcggagtcct ttggtcccag      420
gcatcatcac agttattgac accgaaaccg ttggagaggg ccaggtgctt gtgagtgagg      480
attctgacag tgatggcatt gtggcccact tccctgccca tgagaagcca gtgtgctgca      540
tggcttttaa tacaagtgga atgcttctag tcacaacaga caccccttggc catgactttc      600
atgtcttcca aattctgact catccttggt cctcatcaca atgtgctgtc caccatctgt      660
atactcttca caggggagaa actgaagcca aagtacagga catctgcttc agccatgact      720
gtcgctgggt tgtggtcagt actctccggg gtacttccca cgttttcccc atcaaccctt      780
atggtggcca gccttgtgtt cgtacacata tgtcaccacg agtagtgaat cgcatgagcc      840
gtttccagaa aagtgctgga ctggaagaga ttgaacaaga actgacgtct aagcaaggag      900
gtcgctgtag ccctgttcca ggtctatcaa gcagcccttc tgggtcaccc ttgcatggga      960
aactgaacag ccaagactcc tataacaatt ttaccaacaa caaccctggc aaccctcggc     1020
tctctcctct tcccagcttg atggtagtga tgcctcttgc acaaatcaag cagccaatga     1080
cattggggac catcaccaaa cgaaccggca aagttaaacc tcctccacaa atttcaccca     1140
gcaaatcgat gggcggagaa ttttgtgtgg ctgctatctt cggaacatcc aggtcatggt     1200
ttgcaaataa tgcaggtctg aaaagagaaa aagatcagtc caaacaagtt gtagttgagt     1260
ccctgtacat tatcagttgc tatggcacct tagtggaaca catgatggag ccgcgacccc     1320
tcagcactgc acccaagatt agtgacgaca caccactgga aatgatgaca tcgcctcgag     1380
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ccagctggac tctggttaga acccctcaat ggaatgaatt gcagccaccg tttaatgcaa          1440
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tggttccccc tggaagtcct gggcccatta ctcgacatgg gtcttacgac agtttagctt          1560
ctgaccatag tggacaggaa gatgaagaat ggctttccca ggttgaaatt gtaacacaca          1620
ctggacccca tagacgtctg tggatgggtc cacagttcca gttcaaaacc atccatccct          1680
caggccaaac cacagttatc tcatccagtt catctgtgtt gcagtctcat ggtccgagtg          1740
acacgccaca gcctcttttg gattttgata cagatgatct tgatctcaac agtctcagga          1800
tccagccagt ccgctctgac cccgtcagca tgccagggtc atcccgtcca gtctctgatc          1860
gaaggggagt ttccacagtg attgatgctg cctcaggtac ctttgacagg agcgtgaccc          1920
tgctggaggt gtgcgggagc tggcctgagg gcttcgggct gcggcacatg tcctccatgg          1980
agcacacgga ggagggcctc cgggagcgac ttgccgacgc catggccgag tcacctagcc          2040
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<210> 318
<211> 1365
<212> DNA
<213> homo sapiens

<400> 318
cgagaactct gagtaacagc tcaggctcca ccagcggcag cataccaaga aactttgatg            60
gctaccgatc tccgctgccc accaatgaga gccagcccct cagcctcttc ccgactggct           120
tcccgtaggt accagcaacc tgcttctgac tggccagccc cctcccctgc tggaggaggg           180
gagaagcccc gctctggtcc tacccttcag tctctgctct tccttcatca accaccttcc           240
ccaagcttag tgacagcagc cgcccatcct acctggatgg agaagagacc cttctccaag           300
cacctcagcg cacttgccct ctgccacacc tgtcggtgga ggctgtggcc aggagagact           360
gtagaagctc ggtccctgtg tatgtttgca tatgacatcc tgcattggat ccgcttttgt           420
attttttaac catacccacg gtggggcggg tggggggagc ctggaacagt gaccagatct           480
gggggcctga gtggggacag agttgatcgt ccacctggcc attttgaccc tgagtggaca           540
gtcacagcct cagctcatgt ctggctgtga cacacactgc ccccagcttc ccttggtcag           600
ccccactcca gcacggggtg aacggaggcc cagagtacta gggaaggagg aagggaggac           660
atgcctcttc ttcctccttt ctttccccat ctgttcctgg gaagagtttg tctttcttat           720
ctttaagccc ctttaccctg gtcctgtact gatcagtgaa ggaaaccgtg gttactgagg           780
ccctgttgaa aagtgcacgt cttgtccaat aaatcacgct gcagttggaa aaaaaaaaa           840
aaaaaaaaag gatctttaat taagcggccg caagcttatt cccttttagtg agggttaatt           900
ttagcttggc actggccgtc gttttacaac gtcgtgactg gtaaaccctg gcgttaccca           960
acttaatcgc cttgcagcac atcccccttt cgccagctgg cgtaatagcg aagaggcccg          1020
caccgatcgc ccttcccaac agttgcgcag cctgaatggc gaatgggacg cgccctgtag          1080
cggcgcatta agcgcggcgg gtgtggtggt taccgcgcag cgtgaccgct acacttgcca          1140
gcgccctagc gcccgctcct ttcgctttct tccccttcct ttttcgccac gttcgccggc          1200
tttcccccgt caagctctaa atcggggggct cccctttagg gttcccgatt tagtgcttta          1260
ccggcacctc gaccccaaaa aacttgatta gggtgatggt tcacgtagtg ggccatcgcc          1320
ctgataagac ggttttttcgc cctttgacgt tggagtccac gttct                         1365


<210> 319
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized primer

<400> 319
tgggatatag tctcgtggtg cg                                                     22


<210> 320
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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<223> synthesized primer

<400> 320
tgattcgatg tcatcagtcc cg   22

<210> 321
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized primer

<400> 321
tgtgtcacag ccagacatga gc   22

<210> 322
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized primer

<400> 322
tgcaaacata cacagggacc g   21

<210> 323
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized primer

<400> 323
tttagcagca ctaatgactg tggc   24

<210> 324
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized primer

<400> 324
cgccgtgaat tactgtggat gg   22